

# LNPTM COLORCOMPTM COMPOUND D1000RFJ

## **DESCRIPTION**

LNP COLORCOMP D1000RFJ compound is based on unfilled Polycarbonate (PC) resin. Added features of this grade include: Healthcare, Low Exractable, Food Contact Compliant, Mold Release and UL Rated HB.

GENERAL INFORMATION	
Features	High Flow, Aesthetics/Visual effects, Food contact, Healthcare/Formula lock, Enhanced mold release, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polycarbonate (PC)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Water Management
Consumer	Home Appliances
Hygiene and Healthcare	Pharmaceutical Packaging and Drug Delivery, Surgical devices, General Healthcare, Patient Testing
Packaging	Industrial Packaging, Food & Beverage

### **TYPICAL PROPERTY VALUES**

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL (1)			
Tensile Stress, yld, Type I, 50 mm/min	62	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	68	MPa	ASTM D638
Tensile Strain, yld, Type I, 50 mm/min	7	%	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	125	%	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	96	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2340	MPa	ASTM D790
Hardness, Rockwell M	70	-	ASTM D785
Hardness, Rockwell R	118	-	ASTM D785
Taber Abrasion, CS-17, 1 kg	10	mg/1000cy	ASTM D1044
IMPACT (1)			
Izod Impact, unnotched, 23°C	3204	J/m	ASTM D4812
Izod Impact, notched, 23°C	694	J/m	ASTM D256
Tensile Impact Strength, Type S	546	kJ/m²	ASTM D1822
Falling Dart Impact (D 3029), 23°C	169	J	ASTM D3029
Instrumented Dart Impact Energy @ peak, 23°C	62	J	ASTM D3763
Izod Impact, unnotched 80*10*3 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, unnotched 80*10*3 -30°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*3 +23°C	12	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*3 -30°C	10	kJ/m²	ISO 180/1A
Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU
Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU
		CLIENTIC	TDV/ TILAT NAATTEDC*

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CHEMISTRY THAT MATTERS"



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dict softening Temp, Rate 8   50         154         °C         ASTM D648           HDD, 0.48   MFa, 6.4 mm, unannealed         137         °C         ASTM D648           LDTD, 1.82   MFa, 6.4 mm, unannealed         129         °C         ASTM D648           LDTD, 1.82   MFa, 6.4 mm, unannealed         6.84-05         1/°C         ASTM C351           LDTD, 1.82   MFa, 6.4 mm, unannealed         1.25         1/9°C         ASTM C351           LDTD, 1.82   MFa, 6.4 mm, unannealed         0.19         W/m°C         ASTM C351           LDTD, 1.82   MFa, 6.4 mm, unannealed         1.25         1/9°C         ASTM C351           LDTD, 1.82   MFa, 6.4 mm, unannealed         1.30         °C         UL 7488           LOSA         1.30         °C         UL 7488           Relative Temp Index, Nech w/ injunct         1.30         °C         UL 7488           Relative Temp Index, Mech w/ injunct         1.2         SMT         SMT           Specific Cravity         1.2         ASTM D79         ASTM D792           Specific Cravity         1.2         ASTM D792         ASTM D792           Specific Cravity         0.15         ASTM D792         ASTM D792           Specific Cravity         0.15         ASTM D792         ASTM D792 <tr< td=""><td>PROPERTIES</td><td>TYPICAL VALUES</td><td>UNITS</td><td>TEST METHODS</td></tr<>	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
ADD 1, 0.4 S MPA, 6.4 mm, unannealed         137         °C         ASTM D648           MDD 1, 182 MPA, 6.4 mm, unannealed         129         °C         ASTM D648           MDD 1, 182 MPA, 6.4 mm, unannealed         129         °C         ASTM D648           MDD 1, 182 MPA, 6.4 mm, unannealed         129         119°C         ASTM D648           Specific Heat         1.25         119°C         ASTM C177           Stellate Temp Index, Mech w/Impact <sup>(1)</sup> 130         °C         UL 7468           Stellative Temp Index, Mech w/Impact <sup>(2)</sup> 130         °C         UL 7468           Stellative Temp Index, Mech w/Impact <sup>(2)</sup> 120         °C         ASTM D792           Stellative Temp Index, Mech w/Impact <sup>(2)</sup> 12         °C         ASTM D792           Stellative Temp Index, Mech w/Impact <sup>(2)</sup> 12         °C         ASTM D792           Stellative Temp Index, Mech w/Impact <sup>(2)</sup> 12         °C         ASTM D792           Stellative Temp Index, Mech w/Impact <sup>(2)</sup> 45         ASTM D792           Stellative Temp Index, Mech w/Impact <sup>(2)</sup> 45         ASTM D792           Stellative Temp Index, Mech w/Impact <sup>(2)</sup> 45         ASTM D792           Well Carrich Mech w/Impact <sup>(2)</sup> 45         ASTM D792	THERMAL (1)			
RDT, 1.82 MPs, 6.4 mm, unannealed         129         "C         ASTM D648           TCT, 40°C to 59°C, flow         6.84005         1/1°C         ASTM 631           Specific Heat         1.99         Wm²-C         ASTM C317           Specific Heat         1.99         Wm²-C         ASTM C177           Relative Temp Index, Mech w/Impact (*)         130         "C         U. 7468           Seletive Temp Index, Mech w/Impact (*)         130         "C         U. 7468           Seletive Temp Index, Mech w/Impact (*)         130         "C         U. 7468           Seletive Temp Index, Mech w/Impact (*)         12         "C         U. 7468           Seletive Temp Index, Mech w/Impact (*)         12         "S         ASTM D792           Seletive Temp Index, Mech w/Impact (*)         1.2         "S         ASTM D792           Seletive Temp Index, Mech w/Impact (*)         1.9         "G         ASTM D792           Seletive Temp Index, Mech w/Impact (*)         1.9         "ASTM D792         ASTM D792           Seletive Permittivity, Statusted)         0.15         %         ASTM D792         ASTM D792           Selective Permittivity, Statusted)         0.5-0.7         %         ASTM D173         ASTM D173         ASTM D173         ASTM D173	Vicat Softening Temp, Rate B/50	154	°C	ASTM D1525
ETEL 40°C to 99°C, flow  pecific Peat  1.25  1.25  1.90°C  1.	HDT, 0.45 MPa, 6.4 mm, unannealed	137	°C	ASTM D648
	HDT, 1.82 MPa, 6.4 mm, unannealed	129	°C	ASTM D648
The man Conductivity	CTE, -40°C to 95°C, flow	6.84E-05	1/°C	ASTM E831
Relative Temp Index, Mech Wilmpart (III)         130         °C         UL 7468           Relative Temp Index, Mech Wilmpart (III)         130         °C         U. 7468           Relative Temp Index, Mech Wilmpart (III)         130         °C         U. 7468           Relative Temp Index, Mech Wilmpart (III)         30         °C         U. 7468           Selective Temp Index, Mech Wilmpart (III)         30         °C         ASTM 0792           Where Photograph (III)         1.2         °C         ASTM 0792           Specific Gravity         1.9         (III)         Morty (III)         ASTM 0792           Whater Absorption, (23°C/24hrs)         0.15         %         ASTM 0790           Water Absorption, (23°C/25tarated)         0.5         %         ASTM 0570           Water Absorption, (23°C/25tarated)         0.5         %         ASTM 0570           Water Absorption, equilibrium, 100°C         0.5         X         ASTM 0570           Water Absorption, equilibrium, 100°C         0	Specific Heat	1.25	J/g-°C	ASTM C351
Relative Temp Index, Mech w/j Impact. (**)         130         **C         U. 7468           Relative Temp Index, Mech w/j Impact. (**)         130         **C         U. 7468           Schedit. Gravity         **S         **STM D792           Specific Youlume         1.2         **C         ASTM D792           Density         1.19         grow (**)         ASTM D792           Water Absorption, (23°C/24hrs)         0.15         \$         ASTM D792           Water Absorption, (23°C/24hrs)         0.15         \$         ASTM D792           Water Absorption, (23°C/24hrs)         0.5         \$         ASTM D792           Water Absorption, (23°C/52hrs)         0.5         \$         ASTM D792           Water Absorption, (23°C/24hrs)         0.5         \$         ASTM D792           Water Absorption, (23°C/24hrs)         0.5         \$         ASTM D792           Water Absorption, (23°C/24hrs)         0.5         0.7         \$         ASTM D792           Water Absorption, (23°C/24hrs)         0.5         0.7         \$         ASTM D570           Water Absorption, (23°C/24hrs)         0.5         0.7         \$         ASTM D103           Water Absorption, (23°C/24hrs)         0.5         0.7         0.7         ASTM	Thermal Conductivity	0.19	W/m-°C	ASTM C177
Relative Temp Index, Mech w/o impact. (P)         30         °C         UT 468           PHYSICAL. (F)         STM D792         STM D792           Specific Gravity         1.9         ASTM D792         ASTM D792           Specific Volume         1.9         grown         ASTM D792           Specific Volume         1.9         grown         ASTM D792           Water Absorption, (23°C/24hrs)         1.9         3         ASTM D792           Water Absorption, (23°C/24hrs)         0.5         3         ASTM D790           Water Absorption, (23°C/24hrs)         0.5         3         ASTM D790           Water Absorption, (23°C/24hrs)         0.5         3         ASTM D790           Water Absorption, (23°C/24hrs)         0.5         3         4         ASTM D790           Water Absorption, (23°C/24hrs)         0.5         2         4         ASTM D790           Water Absorption, (23°C/24hrs)         0.5         2         4         ASTM D790           Water Absorption, (23°C/24hrs)         0.5         2         2         ASTM D790           Water Absorption, (23°C/24hrs)         0.5         2         ASTM D790           Water Absorption, (23°C/24hrs)         0.5         2         ASTM D100	Relative Temp Index, Elec (2)	130	°C	UL 746B
Persistical (**)         Persist (Forwity)         1.2         A STM D792           Specific Gravity         1.2         A STM D792         ASTM D792           Oberity         1.19         Os 3         Os 3         ASTM D792           Water Absorption, (23°C/Saturated)         0.15         %         ASTM D570           Water Absorption, equilibrium, 100°C         0.5         %         ASTM D570           Water Absorption, equilibrium, 100°C         0.5         0.7         SM Company         ASTM D170           Water Say, 30°C/1.2 kg         0.5         0.7         SM Company         ASTM D123           Water Say, 30°C/1.2 kg         88         %         ASTM D103           Water Say, 30°C/1.2 kg         1.5         8         %         ASTM D103           Water Say, 30°C/1.2 kg         1.5         8         %         ASTM D103           Water Say, 30°C/1.2 kg         1.5         8         %         ASTM D103           Water Say, 30°C/1.2 kg         1.5         8	Relative Temp Index, Mech w/impact (2)	130	°C	UL 746B
Specific Gravity         1.2          ASTM D792           Specific Volume         0.83         cm²/g         ASTM D792           Density         1.19         g/cm²         ASTM D792           Water Absorption, Q3°C/24hrs)         0.15         %         ASTM D707           Water Absorption, equilibrium, 100°C         0.58         %         ASTM D707           Water Absorption, equilibrium, 100°C         0.50         %         ASTM D708           Well Erlow Rate, 300°C/1.2 kgf         0.50         7         %         ASTM D103           Well Fransmission, 2.54 mm         8         8         ASTM D103           Hazze, 2.54 mm         1         8         ASTM D103           Hazze, 2.54 mm         1         4         ASTM D103           Referencitive Index         1         4         ASTM D103           Relative Permittivity, 50/60 Mz         51.E+17         ASTM D15           Relative Permittivity, 50/60 Mz         3.17         ASTM D15           Relative Permittivity, 50/60 Mz         3.17         ASTM D15           Relative Permittivity, 50/60 Mz         3.10         ASTM D15           Relative Permittivity, 10Mz         2         ASTM D15           Relative Permittivity, 10Mz	Relative Temp Index, Mech w/o impact (2)	130	°C	UL 746B
Specific Volume         0.83         cm²/g         ASTM D792           Density         1.19         g/cm²         ASTM D792           Water Absorption, (23°C/Saturated)         0.15         8         ASTM D570           Water Absorption, (23°C/Saturated)         0.5         8         ASTM D570           Water Absorption, (23°C/Saturated)         0.5         2.7         8         SABIC method           Water Absorption, equilibrium, 100°C         0.5         2.7         8         SABIC method           Water Absorption, equilibrium, 100°C         0.5         2.7         8         SABIC method           Water Absorption, equilibrium, 100°C         0.5         2.7         8         SABIC method           Water Absorption, equilibrium, 100°C         0.5         2.7         8         SABIC method           Water Absorption, equilibrium, 100°C         0.5         2.7         8         SABIC method           Water Absorption, equilibrium, 100°C         0.5         2.7         8         8         8         8         8         8         7         MTM D103         9         2         2         2         2         2         2         2         2         2         2         2         2         2         2<	PHYSICAL (1)			
Pensity   1.19	Specific Gravity	1.2	-	ASTM D792
Nater Absorption, (23°C/24hrs)   0.15   8   ASTM D570     Nater Absorption, (23°C/54turated)   0.35   8   ASTM D570     Nater Absorption, equilibrium, 100°C   0.58   ASTM D1380     Nater Absorption, equilibrium, 100°C   0.58   ASTM D1038     Nater Absorption, equilibrium, 100°C   0.58   ASTM D1038     Nater Absorption, equilibrium, 100°C   0.58   ASTM D1003     Nater Absorption, equilibrium, 100°C   0.58   ASTM D1003     Nater Absorption, 12,54 mm	Specific Volume	0.83	cm³/g	ASTM D792
Water Absorption, (23°C/Saturated)         0.35         %         ASTM D570           Water Absorption, equilibrium, 100°C         0.58         %         ASTM D570           Mold Shrinkage, flow, 3.2 mm (3)         0.5 – 0.7         %         SABIC method           Melet Robe Rate, 300°C/1.2 kgf         16         g/10 min         ASTM D1038           UPITICAL (1)           USBORD REPROY OF THE ABSORD REPROY OF TH	Density	1.19	g/cm³	ASTM D792
Water Absorption, equilibrium, 100°C         0.58         % Mod Sprinkage, flow, 3.2 mm (3)         0.5 – 0.7         % SABIC method           Mold Shrinkage, flow, 3.2 mm (3)         0.5 – 0.7         % On the companies of th	Water Absorption, (23°C/24hrs)	0.15	%	ASTM D570
Mold Shrinkage, flow, 3.2 mm <sup>(3)</sup> 0.5 - 0.7         %         SABIC method           Melt Flow Rate, 300°C/1.2 kgf         16         9.10 mm         ASTM D1238           DPTICAL <sup>(1)</sup> 3.2         ASTM D1033           Light Transmission, 2.54 mm         88         %         ASTM D1003           Alexe, 2.54 mm         1.586         %         ASTM D542           Refractive Index         5.56         S.E.         X         ASTM D542           ELECTRICAL <sup>(1)</sup> (2)         3.17         Q.cm         ASTM D159           Relative Permittivity, 50/60 Hz         3.17         ASTM D150         ASTM D150           Relative Permittivity, 1 MHz         2.96         ASTM D150         ASTM D150           Dissipation Factor, 50/60 Hz         0.0009	Water Absorption, (23°C/Saturated)	0.35	%	ASTM D570
Met Flow Rate, 300°C/1.2 kgf         16         g/l min         ASTM D1238           OPTICAL (¹)         S         ASTM D1003           Haze, 2.54 mm         88         \$         ASTM D1003           Refractive Index         1.586         2         ASTM D542           ELECTRICAL (¹)(²)         ************************************	Water Absorption, equilibrium, 100°C	0.58	%	ASTM D570
DEFICIAL (*)  Light Transmission, 2.54 mm  888  888  880  850  ASTM D1003  AREFactive Index  1.586  BLECTRICAL (*)  BLECTRICA	Mold Shrinkage, flow, 3.2 mm <sup>(3)</sup>	0.5 – 0.7	%	SABIC method
Light Transmission, 2.54 mm         88         %         ASTM D1003           Haze, 2.54 mm         1.586         %         ASTM D103           Refractive Index         1.586         %         ASTM D542           ELECTRICAL (1) (2)         ************************************	Melt Flow Rate, 300°C/1.2 kgf	16	g/10 min	ASTM D1238
Haze, 2.54 mm 1003 Refractive Index 1.586 2.04 ASTM D542 REFractive Index 1.586 2.04 ASTM D542 RELECTRICAL (1)(2)  ELECTRICAL (1)(2)  EVOLUME Resistivity 2.1 E±17	OPTICAL (1)			
Refractive Index         1.586         - O. COM         ASTM D542           ELECTRICAL (1) (2)         Comparativity         ASTM D257           Volume Resistivity         > 1.E+17         Q.Cm         ASTM D159           Delectric Strength, in air, 3.2 mm         14.9         KV/mm         ASTM D149           Relative Permittivity, 50/60 Hz         3.17         - O. Comparative Texture, 50/60 Hz         ASTM D150           Dissipation Factor, 50/60 Hz         0.0009         - O. Comparative Tracking Index (UL) {PLC}         ASTM D150           Comparative Tracking Index (UL) {PLC}         2.1         mm         UL 746A           Hot-Wire Ignition (HWI), PLC 3         1.1         mm         UL 746A           High Amp Arc Ignition (HAVI), PLC 2         1.1         mm         UL 746A           High Amp Arc Ignition (HAVI), PLC 1         1.5         mm         UL 746A           High Amp Arc Ignition (HAVI), PLC 1         2.5         mm         UL 746A           High Amp Arc Ignition (HAVI), PLC 2         1.5         mm         UL 746A           High Amp Arc Ignition (HAVI), PLC 3         2.5         mm         UL 746A           High Amp Arc Ignition (HAVI), PLC 3         2.         UL 746A           High Amp Arc Ignition (HAVI), PLC 3         2.         UL 746A <td>Light Transmission, 2.54 mm</td> <td>88</td> <td>%</td> <td>ASTM D1003</td>	Light Transmission, 2.54 mm	88	%	ASTM D1003
ELECTRICAL (1)(2)  Volume Resistivity >1.E+17	Haze, 2.54 mm	1	%	ASTM D1003
Volume Resistivity>1.E+17Q.cmASTM D257Dielectric Strength, in air, 3.2 mm14.9kV/mmASTM D149Relative Permittivity, 50/60 Hz3.17-ASTM D150Relative Permittivity, 1 MHz2.96-ASTM D150Dissipation Factor, 50/60 Hz0.0009-ASTM D150Dissipation Factor, 1 MHz0.01-ASTM D150Comparative Tracking Index (UL) {PLC}2PLC CodeUL 746AHot-Wire Ignition (HWI), PLC 3+1.1mmUL 746AHot-Wire Ignition (HWI), PLC 2+1.5mmUL 746AHigh Amp Arc Ignition (HAI), PLC 2+1.1mmUL 746AHigh Amp Arc Ignition (HAI), PLC 1+1.5mmUL 746AHigh Yoltage Arc Track Rate {PLC}2L0.5mmUL 746AHigh Yoltage Arc Track Rate {PLC}2L0.5UL 746AHigh Yoltage Arc Track Rate {PLC}2UL 746AUL 746AHigh Yoltage	Refractive Index	1.586	-	ASTM D542
Delectric Strength, in air, 3.2 mm         14.9         kV/mm         ASTM D149           Relative Permittivity, 50/60 Hz         3.17         -         ASTM D150           Relative Permittivity, 1 MHz         2.96         -         ASTM D150           Dissipation Factor, 50/60 Hz         0.0009         -         ASTM D150           Comparative Tracking Index (UL) {PLC}         2         PLC Code         UL 746A           Hot-Wire Ignition (HWI), PLC 3         ≥1.1         mm         UL 746A           High Amp Arc Ignition (HAI), PLC 2         ≥1.5         mm         UL 746A           High Amp Arc Ignition (HAI), PLC 2         ≥1.5         mm         UL 746A           High Voltage Arc Track Rate {PLC}         ≥2         PLC Code         UL 746A           High Voltage Arc Track Rate {PLC}         ≥1.5         mm         UL 746A           High Voltage Arc Track Rate {PLC}         ≥2         PLC Code         UL 746A           FLAME CHARACTERISTICS (2)         PLC Code         UL 746A           UL Yellow Card Link         ≥2         PLC Code         UL 746A           UL Yellow Card Link         ≥0.7         mm         UL 94	ELECTRICAL (1) (2)			
Relative Permittivity, 50/60 Hz         3.17         Comparative Permittivity, 1 MHz         ASTM D150           Dissipation Factor, 50/60 Hz         0.0009         -         ASTM D150           Comparative Tracking Index (UL) {PLC}         0.01         -         ASTM D150           Comparative Tracking Index (UL) {PLC}         2         PLC Code         UL 746A           Hot-Wire Ignition (HWI), PLC 3         ≥1.1         mm         UL 746A           High Amp Arc Ignition (HAI), PLC 2         ≥1.1         mm         UL 746A           High Amp Arc Ignition (HAI), PLC 2         ≥1.5         mm         UL 746A           High Voltage Arc Track Rate {PLC}         2         PLC Code         UL 746A           High Voltage Arc Track Rate {PLC}         2         PLC Code         UL 746A           FLAME CHARACTERISTICS <sup>(2)</sup> PLC Code         UL 746A           UL Yellow Card Link         E121562-104419595         -         -         -           UL Recognized, 94HB Flame Class Rating         20.7         mm         UL 94	Volume Resistivity	>1.E+17	Ω.cm	ASTM D257
Relative Permittivity, 1 MHz 2.96 0.0009	Dielectric Strength, in air, 3.2 mm	14.9	kV/mm	ASTM D149
Dissipation Factor, 50/60 Hz  Dissipation Factor, 1 MHz  Comparative Tracking Index (UL) {PLC}  Hot-Wire Ignition (HWI), PLC 3  Hot-Wire Ignition (HWI), PLC 2  High Amp Arc Ignition (HAI), PLC 2  High Amp Arc Ignition (HAI), PLC 1  High Amp Arc Ignition (HAI), PLC 1  High Amp Arc Ignition (HAI), PLC 2  High Amp Arc Ignition (HAI), PLC 2  High Amp Arc Ignition (HAI), PLC 1  High Amp Arc Ignition (HAI), PLC 2  High Amp Arc Ignition (HAI), PLC 1  High Amp Arc Ignition (HAI), PLC 2  High Amp Arc Ignition (HAI), PLC 1  High Amp Arc Ignition (HAI), PLC 2  High Amp Arc	Relative Permittivity, 50/60 Hz	3.17	-	ASTM D150
Dissipation Factor, 1 MHz  Comparative Tracking Index (UL) {PLC}  Hot-Wire Ignition (HWI), PLC 3  Hot-Wire Ignition (HWI), PLC 2  High Amp Arc Ignition (HAI), PLC 2  High Amp Arc Ignition (HAI), PLC 1  High Voltage Arc Track Rate {PLC}  LUL 746A  21.5  LUL 746A  21.5  Mm  UL 746A  High Voltage Arc Track Rate {PLC}  UL 746A  UL 746A  UL 746A  UL 746A  UL 746A  High Voltage Arc Track Rate {PLC}  UL 746A  UL 746A  UL 746A  UL 746A  High Voltage Arc Track Rate {PLC}  UL 746A  UL 746A  UL 746A  UL 746A  High Voltage Arc Track Rate {PLC}  UL 746A  High Voltage Arc Track Rate {PLC}  UL 746A  UL 7	Relative Permittivity, 1 MHz	2.96	-	ASTM D150
Comparative Tracking Index (UL) {PLC}  \$1.1  \$1.5  \$1.1  \$1.	Dissipation Factor, 50/60 Hz	0.0009	-	ASTM D150
Hot-Wire Ignition (HWI), PLC 3 ≥1.1 mm UL 746A Hot-Wire Ignition (HWI), PLC 2 ≥1.5 mm UL 746A High Amp Arc Ignition (HAI), PLC 2 ≥1.1 mm UL 746A High Amp Arc Ignition (HAI), PLC 1 ≥1.5 mm UL 746A High Amp Arc Ignition (HAI), PLC 1 ≥1.5 mm UL 746A High Voltage Arc Track Rate {PLC} 2 PLC Code UL 746A  FLAME CHARACTERISTICS (2)  UL Yellow Card Link	Dissipation Factor, 1 MHz	0.01	-	ASTM D150
Hot-Wire Ignition (HWI), PLC 2 ≥1.5 mm UL 746A High Amp Arc Ignition (HAI), PLC 2 ≥1.1 mm UL 746A High Amp Arc Ignition (HAI), PLC 1 ≥1.5 mm UL 746A High Voltage Arc Track Rate {PLC} 2 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} 2 VL 746A  LU Yellow Card Link 2 2 VL 746A  LU Yellow Card Link 2 2 VL 746A  LU Yellow Card Link 3 2 VL 746A  LU Yellow Card Link 4 2 VL 746A  LU Yellow Card Link 4 VL 746A  LU Yellow Card Link 7	Comparative Tracking Index (UL) {PLC}	2	PLC Code	UL 746A
High Amp Arc Ignition (HAI), PLC 2  High Amp Arc Ignition (HAI), PLC 1  Ligh Amp Arc Ignition (HAI), PLC 2  Light Amp Arc Igni	Hot-Wire Ignition (HWI), PLC 3	≥1.1	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 1 ≥1.5 mm UL 746A High Voltage Arc Track Rate {PLC} 2 PLC Code UL 746A  FLAME CHARACTERISTICS (2)  UL Yellow Card Link E121562-104419595	Hot-Wire Ignition (HWI), PLC 2	≥1.5	mm	UL 746A
High Voltage Arc Track Rate {PLC}         2         PLC Code         UL 746A           FLAME CHARACTERISTICS (2)         UL Yellow Card Link         £121562-104419595         -         -         -           UL Recognized, 94HB Flame Class Rating         ≥0.7         mm         UL 94	High Amp Arc Ignition (HAI), PLC 2	≥1.1	mm	UL 746A
FLAME CHARACTERISTICS (2)  UL Yellow Card Link  E121562-104419595	High Amp Arc Ignition (HAI), PLC 1	≥1.5	mm	UL 746A
UL Yellow Card Link         E121562-104419595         -         -         -           UL Recognized, 94HB Flame Class Rating         ≥0.7         mm         UL 94	High Voltage Arc Track Rate {PLC}	2	PLC Code	UL 746A
UL Recognized, 94HB Flame Class Rating ≥0.7 mm UL 94	FLAME CHARACTERISTICS (2)			
	UL Yellow Card Link	E121562-104419595	-	-
	UL Recognized, 94HB Flame Class Rating	≥0.7	mm	UL 94
NJECTION MOLDING <sup>(4)</sup>	INJECTION MOLDING (4)			
Drying Temperature 120 °C	Drying Temperature	120	°C	
Drying Time 3 – 4 Hrs	Drying Time	3 – 4	Hrs	
Drying Time (Cumulative) 48 Hrs	Drying Time (Cumulative)	48	Hrs	
Maximum Moisture Content 0.02 %	Maximum Moisture Content	0.02	%	
Melt Temperature 280 – 305 °C	Melt Temperature	280 – 305	°C	



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Nozzle Temperature	275 – 300	°C	
Front - Zone 3 Temperature	280 – 305	°C	
Middle - Zone 2 Temperature	270 – 295	°C	
Rear - Zone 1 Temperature	260 – 280	°C	
Mold Temperature	70 – 95	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	40 – 60	%	
Vent Depth	0.025 - 0.076	mm	

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.
- (3) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
- (4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

#### **ADDITIONAL PRODUCT NOTES**

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

## **DISCLAIMER**

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