

# LEXANTM COPOLYMER 4501

## REGION EUROPE

# **DESCRIPTION**

High heat resistant polyphthalate carbonate, provides DTUL of 290F at 264 psi.

## **TYPICAL PROPERTY VALUES**

Revision 20231109

Tensile Stress, yield, 50 mm/min         65         MPa         ISO 527           Tensile Stress, break, 50 mm/min         55         MPa         ISO 527           Tensile Strain, yield, 50 mm/min         7         %         ISO 527           Tensile Strain, break, 50 mm/min         >50         %         ISO 527           Tensile Modulus, 1 mm/min         2300         MPa         ISO 178           Hexural Modulus, 2 mm/min         122         WPa         ISO 2039-2           IMPACT ************************************	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Tensile Stress, break, 50 mm/min         55         Mina         ISO 527           Tensile Strain, break, 50 mm/min         7         %         ISO 527           Tensile Strain, break, 50 mm/min         2300         Ma         ISO 527           Flexual Modulus, 1 mm/min         2300         Mñ         ISO 178           Hardness, Rockwell R         122         "         ISO 2039-2           MPACT ************************************	MECHANICAL (1)			
Tensile Strain, pireld, 50 mm/min         7         %         505 27           Tensile Modulus, 1 mm/min         500         %         050 527           Tensile Modulus, 2 mm/min         2300         MPa         050 727           Hexural Modulus, 2 mm/min         2300         MPa         10 178           Hardness, Rockwell R         220         20         20         20 2039-2           March         10 18 1/m²         10 18 1/	Tensile Stress, yield, 50 mm/min	65	MPa	ISO 527
Tensile Strain, break, 50 mm/min         >50         %         S05 27           Tensile Modulus, 1 mm/min         2300         MPa         ISO 527           Flexural Modulus, 2 mm/min         2300         MPa         ISO 527           Hardness, Rockwell R         222         -         180 2039-2           IMPACT ************************************	Tensile Stress, break, 50 mm/min	55	MPa	ISO 527
Tensile Modulus, 1 mm/min         2300         MPa         SO 527           Flexural Modulus, 2 mm/min         2300         MPa         SO 178           Hardness, Rockwell R         122         SO 2039-2           IMPACT ************************************	Tensile Strain, yield, 50 mm/min	7	%	ISO 527
Flexural Modulus, 2 mm/min         2300         MPa         SO 178           Hardness, Rockwell R         122         -         -         50 2039-2           IMPACT II         IMPACT II         IMPACT II         SO 180/IU           Izod Impact, unnotched 80*10*3+23*°C         NB         Id/m²         SO 180/IU           Izod Impact, unnotched 80*10*3+30*°C         NB         Id/m²         SO 180/IU           Izod Impact, notched 80*10*3+22*°C         10         Id/m²         SO 180/IA           Izod Impact, notched 80*10*3+22*°C         11         Id/m²         SO 180/IA           Chary 23*C, V-notch Edgew 80*10*3 sp=62mm         59         Id/m²         SO 179/IeA           Charpy 23*C, Unnotch Edgew 80*10*3 sp=62mm         NB         Id/m²         SO 179/IeA           Charpy 23*C, Unnotch Edgew 80*10*3 sp=62mm         NB         Id/m²         SO 179/IeA           Charpy 23*C, Unnotch Edgew 80*10*3 sp=62mm         NB         Id/m²         SO 179/IeA           Charpy 24*C, Unnotch Edgew 80*10*3 sp=62mm         NB         Id/m²         SO 302           Charpy 24*C, Unnotch Edgew 80*10*3 sp=62mm         NB         Id/m²         SO 179/IeA           Charpy 24*C, Unnotch Edgew 80*10*3 sp=62mm         PA         Id/m²         SO 302         Id/m²         SO 302 <td>Tensile Strain, break, 50 mm/min</td> <td>&gt;50</td> <td>%</td> <td>ISO 527</td>	Tensile Strain, break, 50 mm/min	>50	%	ISO 527
Hardness, Rockwell R         122          Isolator           IMPACT <sup>(1)</sup> Isolator Impact, unnotched 80°10°3 +23°C         NB         kl/m²         Iso 180/1U           Izod Impact, unnotched 80°10°3 -30°C         50         kl/m²         Iso 180/1U           Izod Impact, unotched 80°10°3 -30°C         11         kl/m²         Iso 180/1A           Charpy 23°C, Vnotch Edgew 80°10°3 sp=62mm         59         kl/m²         Iso 179/1eA           Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl/m²         Iso 179/1eA           Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl/m²         Iso 179/1eA           Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl/m²         Iso 179/1eA           Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl/m²         Iso 179/1eA           Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl/m²         Iso 179/1eA           Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl/m²         Iso 179/1eA           Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm         Pa         kl/m²         Iso 179/1eA           Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm         Pa         Iso 180         Iso 180           LEEMING         12         Iso 180         Iso 18	Tensile Modulus, 1 mm/min	2300	MPa	ISO 527
IMPACT (**)         IXED (IMPACE, UNITO) 3-23°C         NB         IXI/IMP         IXED (180/11)           Izod Impact, unnotched 80°10°3 -30°C         NB         IXI/IMP         IXED (180/11)           Izod Impact, unnotched 80°10°3 -30°C         50         IXI/IMP         IXED (180/11)           Izod Impact, notched 80°10°3 -30°C         11         IXI/IMP         IXED (180/11)           Charpy 23°C, Venotch Edgew 80°10°3 sp=62mm         59         IXI/IMP         IXED (197/16)           Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm         13         IXI/IMP         IXED (197/16)           Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         IXI/IMP         IXED (197/16)           Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         IXI/IMP         IXED (197/16)           Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         IXI/IMP         IXED (197/16)           THERMAL (**)         ****         IXIIIMP         IXED (197/16)           THERMAL (**)         ****         IXED (197/16)         IXED (197/16)           Vicat Softening Temp, Rate B/120         2         ***         IXED (197/16)           Relative Temp Index, Mech w/ Impact (**)         12         ***         X         IXED (197/16)           Relative Temp Index, Mech w/ Impact (**)         12	Flexural Modulus, 2 mm/min	2300	MPa	ISO 178
ized impact, unnotched 80*10*3 +23*C         NB         kl/m²         ISO 180/1U           ized impact, unnotched 80*10*3 +23*C         NB         kl/m²         ISO 180/1A           ized impact, notched 80*10*3 +23*C         50         kl/m²         ISO 180/1A           ized impact, notched 80*10*3 +23*C         11         kl/m²         ISO 180/1A           Charpy 23*C, Vnotch Edgew 80*10*3 spe-62mm         59         kl/m²         ISO 179/1eA           Charpy 23*C, Unnotch Edgew 80*10*3 spe-62mm         13         kl/m²         ISO 179/1eA           Charpy 30*C, Unnotch Edgew 80*10*3 spe-62mm         NB         kl/m²         ISO 179/1eA           Charpy 30*C, Unnotch Edgew 80*10*3 spe-62mm         NB         kl/m²         ISO 179/1eA           Charpy 30*C, Unnotch Edgew 80*10*3 spe-62mm         NB         kl/m²         ISO 179/1eA           Charpy 40*C, Unnotch Edgew 80*10*3 spe-62mm         NB         kl/m²         ISO 179/1eA           Charpy 40*C, Unnotch Edgew 80*10*3 spe-62mm         NB         kl/m²         ISO 179/1eA           Charpy 40*C, Unnotch Edgew 80*10*3 spe-62mm         NB         kl/m²         ISO 179/1eA           Charpy 40*C, Unnotch Edgew 80*10*3 spe-62mm         NB         kl/m²         ISO 179/1eA           Charpy 40*C, Unnotch Edgew 80*10*3 spe-62mm         NB         M²m	Hardness, Rockwell R	122	-	ISO 2039-2
izod Impact, unnotched 80°10°3 -30°C         NB         ki/m²         ISO 180/10           izod Impact, notched 80°10°3 +23°C         50         ki/m²         ISO 180/1A           Izod Impact, notched 80°10°3 -30°C         11         ki/m²         ISO 180/1A           Charpy 23°C, V-notch Edgew 80°10°3 spe6zmm         59         ki/m²         ISO 179/1eA           Charpy 30°C, V-notch Edgew 80°10°3 spe6zmm         13         ki/m²         ISO 179/1eQ           Charpy 30°C, Unnotch Edgew 80°10°3 spe6zmm         NB         ki/m²         ISO 179/1eQ           Charpy 30°C, Unnotch Edgew 80°10°3 spe6zmm         NB         ki/m²         ISO 179/1eQ           Charpy 30°C, Unnotch Edgew 80°10°3 spe6zmm         NB         ki/m²         ISO 179/1eQ           Charpy 30°C, Unnotch Edgew 80°10°3 spe6zmm         NB         ki/m²         ISO 179/1eQ           Charpy 30°C, Unnotch Edgew 80°10°3 spe6zmm         NB         ki/m²         ISO 179/1eQ           Charpy 30°C, Unnotch Edgew 80°10°3 spe6zmm         NB         ki/m²         ISO 179/1eQ           Charpy 30°C, Unnotch Edgew 80°10°3 spe6zmm         NB         ki/m²         ISO 300           Relative Tomatic Edgew 80°10°3 spe6zmm         NB         Q         C         ISO 300           Relative Tomatic Edgew 80°10°3 spe6zmm         125         C <td>IMPACT (1)</td> <td></td> <td></td> <td></td>	IMPACT (1)			
izod Impact, notched 80°10°3 +23°C         50         kl/m²         150 180/1A           izod Impact, notched 80°10°3 -30°C         11         kl/m²         150 180/1A           Charpy 23°C, Vnotch Edgew 80°10°3 sp=62mm         59         kl/m²         150 179/1eA           Charpy 30°C, Vnotch Edgew 80°10°3 sp=62mm         13         kl/m²         150 179/1eA           Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl/m²         150 179/1eU           Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl/m²         150 179/1eU           Thermal Conductivity         VICA         150 8302         179/1eU           Vicat Softenia Temp, Rate B/120         60         °C         150 306           Relative Temp Index, Elec (²²)         125         °C         U.7468           Relative Temp Index, Mech w/impact (²²)         125         °C         U.7468           Relative Temp Index, Mech w/o impact (²²)         125         °C         U.7468           PHYSICAL (¹¹)         12         °C         U.7468           PHYSICAL (¹¹)         12         g/cm²         SABIC method           Density         1         2         g/cm²         ISO 1183           Melt Volume Rate, MVR at 300°C/5.0 kg         1         2         <	Izod Impact, unnotched 80*10*3 +23°C	NB	kJ/m²	ISO 180/1U
izod Impact, notched 80°10°3 spe62mm         11         kl/m²         ISO 180/1A           Charpy 23°C, V-notch Edgew 80°10°3 spe62mm         59         kl/m²         ISO 179/1eA           Charpy 23°C, Unnotch Edgew 80°10°3 spe62mm         13         kl/m²         ISO 179/1eU           Charpy 23°C, Unnotch Edgew 80°10°3 spe62mm         NB         kl/m²         ISO 179/1eU           Charpy 30°C, Unnotch Edgew 80°10°3 spe62mm         NB         kl/m²         ISO 179/1eU           Charpy 430°C, Unnotch Edgew 80°10°3 spe62mm         NB         kl/m²         ISO 179/1eU           Charpy 30°C, Unnotch Edgew 80°10°3 spe62mm         NB         kl/m²         ISO 179/1eU           Charpy 430°C, Unnotch Edgew 80°10°3 spe62mm         NB         kl/m²         ISO 179/1eU           Charpy 430°C, Unnotch Edgew 80°10°3 spe62mm         NB         kl/m²         ISO 179/1eU           Charpy 430°C, Unnotch Edgew 80°10°3 spe62mm         NB         kl/m²         ISO 179/1eU           Charpy 440°C         W/m²         Sto 830         C           Charpy 440°C         Relative Edgew 80°10°3 spe62mm         120         20         U.746B           Relative Temp Index, Mech w/m impact (2)         125         20         C         U.746B           Relative Temp Index, Mech w/m impact (2)         12	Izod Impact, unnotched 80*10*3 -30°C	NB	kJ/m²	ISO 180/1U
Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm         59         kl m²         ISO 179/1eA           Charpy -30°C, V-notch Edgew 80°10°3 sp=62mm         13         kl m²         ISO 179/1eA           Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl m²         ISO 179/1eU           Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl m²         ISO 179/1eU           Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl m²         ISO 179/1eU           Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl m²         ISO 179/1eU           Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl m²         ISO 179/1eU           Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl m²         ISO 179/1eU           Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl m²         SO 179/1eU           The Mary -100°C         SO 179/1eU         SO 306         Control           Relative Track Rele (91°C)         125         °C         UL 746B           Relative Pernil Index, Mech w/o impact (2)         12         9/cm³         SO 1183           Bell Strike Track (1)         12         9/cm³         SO 1183           Bell Strike Track (1)         12         12         12         12         12	Izod Impact, notched 80*10*3 +23°C	50	kJ/m²	ISO 180/1A
Charpy -30°C, V-notch Edgew 80°10°3 sp=62mm         13         kl/m²         ISO 179/1eA           Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl/m²         ISO 179/1eU           Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl/m²         ISO 179/1eU           THERMAL (¹)           THERMAL (¹)         Wind Sold (¹)         Wind Sold (¹)           Yica Softening Temp, Rate B/120         160         °C         WI 746B           Relative Temp Index, Mech w/impact (²)         125         °C         UL 746B           Relative Temp Index, Mech w/o impact (²)         125         °C         UL 746B           Physical (¹)         Yield (¹)         Yiel	Izod Impact, notched 80*10*3 -30°C	11	kJ/m²	ISO 180/1A
Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl/m²         ISO 179/1eU           Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl/m²         ISO 179/1eU           THERMAL (¹)           Thermal Conductivity         0.21         W/m.°C         ISO 300           Vicat Softening Temp, Rate B/120         160         °C         U.7 46B           Relative Temp Index, Elec (²)         125         °C         U.7 46B           Relative Temp Index, Mech w/o impact (²)         125         °C         U.7 46B           PHYSICAL (¹)           The Solid Mech w/o impact (²)         0.7         %         SABIC method           Design for Fasile Bar, flow (²)         0.7         %         SABIC method           Design for Fasile Bar, flow (²)         1.2         g/cm³         ISO 1183           Belt Volume Rate, MVR at 300°C/5.0 kg         10         cm²/10 min         ISO 1133           Belt Volume Rate, MVR at 300°C/5.0 kg         3         2         IEC 60250           Belt Volume Partitivity, 1 MHz         3         2         IEC 60250           Big Notitive Partitivity, 1 MHz         3         PLC Code         UL	Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm	59	kJ/m²	ISO 179/1eA
Charpy-30°C, Unnotch Edgew 80°10°3 sp=62mm         NB         kl/m²         ISO 179/1eU           THERMAL**           Thermal Conductivity         0.21         W/m°C         ISO 8302           Vicat Softening Temp, Rate B/120         160         °C         U1.746B           Relative Temp Index, Elec (²)         125         °C         U1.746B           Relative Temp Index, Mech w/impact (²)         125         °C         U1.746B           Relative Temp Index, Mech w/o impact (²)         125         °C         U1.746B           William Temp Index, Mech w/o impact (²)         0.7         %         SABIC method           Density         1.2         %         SABIC method           Density         1.2         %         SABIC method           Mel Volume Rate, MVR at 300°C/5.0 kg         10         m³/10 min         SO 1183           ELECTRICAL (¹)           ERelative Permittivity, 1 MHz         3         .         RC 60250           Dissipation Factor, 100 Hz         0.024         .         LC 60250           Big May Arc Ignition (HAI), PLC 4         ≥         1.5         mm         U1.746A	Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm	13	kJ/m²	ISO 179/1eA
THERMAL <sup>(1)</sup> Thermal Conductivity         0.21         W/m°C         150 8302           Vicat Softening Temp, Rate B/120         160         °C         150 306           Relative Temp Index, Elec <sup>(2)</sup> 125         °C         U. 746B           Relative Temp Index, Mech w/impact <sup>(2)</sup> 125         °C         U. 746B           Relative Temp Index, Mech w/o impact <sup>(2)</sup> 125         °C         U. 746B           PHYSICAL <sup>(1)</sup> Will Albert a Mech w/o impact <sup>(2)</sup> 9.7         SABIC method           Density         9/cm³         150 1183           Mel Volume Rate, MVR at 300°C/5.0 kg         10         ycm³         150 1183           ELECTRICAL <sup>(1)</sup> 2         150 1183         150 1183           ELECTRICAL <sup>(1)</sup> 150 1183         150 1183         150 1183           Physical Physical Physical Physical Physical Physica	Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU
Thermal Conductivity0.21W/m°CISO 8302Vicat Softening Temp, Rate B/120160°CISO 306Relative Temp Index, Elec (²)125°CUL 746BRelative Temp Index, Mech w/impact (²)125°CUL 746BRelative Temp Index, Mech w/o impact (²)125°CUL 746BWHYSICAL (¹)PHYSICAL (¹)3SABIC methodDensity1.2g/cm³ISO 1183Melt Volume Rate, MVR at 300°C/5.0 kg10cm³/10 minISO 1133BLECTRICAL (¹)1EC 60250Relative Permittivity, 1 MHz32EC 60250Dissipation Factor, 100 Hz0.024-EC 60250High Amp Arc Ignition (HAI), PLC 421.5mmUL 746AHot-Wire Ignition (HWI), PLC 126mmUL 746AHot-Wire Ignition (HWI), PLC 223mmUL 746A	Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU
Vicat Softening Temp, Rate B/120         160         °C         ISO 306           Relative Temp Index, Elec (2)         125         °C         UL 746B           Relative Temp Index, Mech w/impact (2)         125         °C         UL 746B           Relative Temp Index, Mech w/o impact (2)         125         °C         UL 746B           PHYSICAL (1)           Wold Shrinkage on Tensile Bar, flow (3)         0.7         %         SABIC method           Density         1.2         g/cm³         ISO 1183           Melt Volume Rate, MVR at 300°C/5.0 kg         10         cm³/10 min         ISO 1133           ELECTRICAL (1)         was (1)         IEC 60250         Colspan="2">IEC 60250           Relative Permittivity, 1 MHz         3         -         IEC 60250         Colspan="2">IEC 60250           Dissipation Factor, 100 Hz         0.024         PLC Code         UL 746A         UL 746A           High Amp Arc Ignition (HAI), PLC 4         2.5         mm         UL 746A         UL 746A           Hot-Wire Ignition (HWI), PLC 1         26         mm         UL 746A         UL 746A	THERMAL (1)			
Relative Temp Index, Elec (2)         125         °C         UL 746B           Relative Temp Index, Mech w/impact (2)         125         °C         UL 746B           Relative Temp Index, Mech w/o impact (2)         125         °C         UL 746B           PHYSICAL (1)         "UL 746B         ************************************	Thermal Conductivity	0.21	W/m-°C	ISO 8302
Relative Temp Index, Mech w/impact (2) 125 °C UL 7468 Relative Temp Index, Mech w/o impact (2) 125 °C UL 7468  PHYSICAL (1) VERNICAL (2) VERNICAL (3) VERNICAL (4) VERNICAL (3) VERNICAL (3) VERNICAL (4) VERNICAL (4	Vicat Softening Temp, Rate B/120	160	°C	ISO 306
Relative Temp Index, Mech w/o impact (2)125°CU. 746BPHYSICAL (1)Mold Shrinkage on Tensile Bar, flow (3)0.7%SABIC methodDensity1.2Melt Volume Rate, MVR at 300°C/5.0 kg10BLECTRICAL (1)Relative Permittivity, 1 MHz3IEC 60250Dissipation Factor, 100 Hz.0.24High Amp Arc Ignition (HAI), PLC 4Hot-Wire Ignition (HWI), PLC 2≥1.5mmU. 746AHot-Wire Ignition (HWI), PLC 2≥3mm	Relative Temp Index, Elec <sup>(2)</sup>	125	°C	UL 746B
PHYSICAL (1)Mold Shrinkage on Tensile Bar, flow (3)0.7%SABIC methodDensity1.2g/cm³ISO 1183Melt Volume Rate, MVR at 300°C/5.0 kg10cm³/10 minISO 1133ELECTRICAL (1)****IEC 60250Relative Permittivity, 1 MHz3-IEC 60250Dissipation Factor, 100 Hz0.024-IEC 60250High Amp Arc Ignition (HAI), PLC 4\$1.5mmUL 746AHot-Wire Ignition (HWI), PLC 2\$3mmUL 746A	Relative Temp Index, Mech w/impact (2)	125	°C	UL 746B
Mold Shrinkage on Tensile Bar, flow (3)0.7%SABIC methodDensity1.2g/cm³ISO 1183Melt Volume Rate, MVR at 300°C/5.0 kg10cm³/10 minISO 1133ELECTRICAL (1)TTELECTRICAL (2)Relative Permittivity, 1 MHz32IEC 60250Dissipation Factor, 100 Hz0.024-IEC 606250High Voltage Arc Track Rate {PLC}3PLC CodeUL 746AHigh Amp Arc Ignition (HAI), PLC 4≥1.5mmUL 746AHot-Wire Ignition (HWI), PLC 2≥3mmUL 746A	Relative Temp Index, Mech w/o impact (2)	125	°C	UL 746B
Density1.2g/cm³ISO 1183Melt Volume Rate, MVR at 300°C/5.0 kg10cm³/10 minISO 1133ELECTRICAL (¹)*********************************	PHYSICAL (1)			
Melt Volume Rate, MVR at 300°C/5.0 kg  10  10  10  10  10  10  10  10  10  1	Mold Shrinkage on Tensile Bar, flow <sup>(3)</sup>	0.7	%	SABIC method
Relative Permittivity, 1 MHz 3	Density	1.2	g/cm³	ISO 1183
Relative Permittivity, 1 MHz       3       -       IEC 60250         Dissipation Factor, 100 Hz       0.024       -       IEC 60250         High Voltage Arc Track Rate {PLC}       3       PLC Code       UL 746A         High Amp Arc Ignition (HAI), PLC 4       ≥1.5       mm       UL 746A         Hot-Wire Ignition (HWI), PLC 1       ≥6       mm       UL 746A         Hot-Wire Ignition (HWI), PLC 2       ≥3       mm       UL 746A	Melt Volume Rate, MVR at 300°C/5.0 kg	10	cm³/10 min	ISO 1133
Dissipation Factor, 100 Hz         0.024         -         IEC 60250           High Voltage Arc Track Rate {PLC}         3         PLC Code         UL 746A           High Amp Arc Ignition (HAI), PLC 4         ≥1.5         mm         UL 746A           Hot-Wire Ignition (HWI), PLC 1         ≥6         mm         UL 746A           Hot-Wire Ignition (HWI), PLC 2         ≥3         mm         UL 746A	ELECTRICAL (1)			
High Voltage Arc Track Rate {PLC}         3         PLC Code         UL 746A           High Amp Arc Ignition (HAI), PLC 4         ≥1.5         mm         UL 746A           Hot-Wire Ignition (HWI), PLC 1         ≥6         mm         UL 746A           Hot-Wire Ignition (HWI), PLC 2         ≥3         mm         UL 746A	Relative Permittivity, 1 MHz	3	-	IEC 60250
High Amp Arc Ignition (HAI), PLC 4       ≥1.5       mm       UL 746A         Hot-Wire Ignition (HWI), PLC 1       ≥6       mm       UL 746A         Hot-Wire Ignition (HWI), PLC 2       ≥3       mm       UL 746A	Dissipation Factor, 100 Hz	0.024	-	IEC 60250
Hot-Wire Ignition (HWI), PLC 1 ≥6 mm UL 746A  Hot-Wire Ignition (HWI), PLC 2 ≥3 mm UL 746A	High Voltage Arc Track Rate {PLC}	3	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 2 ≥3 mm UL 746A	High Amp Arc Ignition (HAI), PLC 4	≥1.5	mm	UL 746A
	Hot-Wire Ignition (HWI), PLC 1	≥6	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 3 ≥1.5 mm UL 746A	Hot-Wire Ignition (HWI), PLC 2	≥3	mm	UL 746A
	Hot-Wire Ignition (HWI), PLC 3	≥1.5	mm	UL 746A



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
FLAME CHARACTERISTICS (2)			
UL Yellow Card Link	E121562-220884	-	-
UL Recognized, 94V-2 Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING (4)			
Drying Temperature	125 – 135	°C	
Drying Time	3 – 4	Hrs	
Melt Temperature	325 – 360	°C	
Nozzle Temperature	320 – 340	°C	
Front - Zone 3 Temperature	320 – 340	°C	
Middle - Zone 2 Temperature	310 – 330	°C	
Rear - Zone 1 Temperature	300 – 320	°C	
Hopper Temperature	60 – 80	°C	
Mold Temperature	100 – 125	°C	

- (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. 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.
- (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.

#### **DISCLAIMER**

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