

LNPTM THERMOCOMPTM COMPOUND RX05494

RF-1008 HS

DESCRIPTION

LNP THERMOCOMP RX05494 compound is based on Nylon 6/6 resin containing 40% glass fiber. Added features of this grade include: Heat Stabilized.

GENERAL INFORMATION	
Features	Heat Stabilized, High stiffness/Strength
Fillers	Glass Fiber
Polymer Types	Polyamide 66 (Nylon 66)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Aerospace
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20230607

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL (1)			
Tensile Stress, yld, Type I, 5 mm/min	230	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	210	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	2.8	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	2.9	%	ASTM D638
Tensile Modulus, 5 mm/min	13900	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	338	MPa	ASTM D790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	337	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	12400	MPa	ASTM D790
Tensile Stress, yield, 5 mm/min	232	MPa	ISO 527
Tensile Stress, break, 5 mm/min	232	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.9	%	ISO 527
Tensile Strain, break, 5 mm/min	2.9	%	ISO 527
Tensile Modulus, 1 mm/min	14060	MPa	ISO 527
Flexural Stress	229	MPa	ISO 178
Flexural Modulus, 2 mm/min	11170	MPa	ISO 178
IMPACT (1)			
Izod Impact, unnotched, 23°C	1320	J/m	ASTM D4812
Izod Impact, notched, 23°C	166	J/m	ASTM D256
Multiaxial Impact	4	J	ISO 6603
Instrumented Dart Impact Total Energy, 23°C	18	J	ASTM D3763



PROFERTIES IVIN'DEL VALUES UNITS EST METHODS Ized Impact, unotached 80°10°4+23°C 86 1/m² 50 180/10 Ized Impact, notched 80°10°4+23°C 180 1/m² 50 180/10 HEREMAL************************************	Izod Impact, unnotched 80*10*4 +23°C 86 Izod Impact, notched 80*10*4 +23°C 16 Izod Impact, notched 80*10*4 sp=64mm 253 Izod Impact, notched 80*10*4 sp=64mm 259 Izod Impact, notched 80*10*4 sp=64mm 244 Izod Impact, notched 80*10*4 sp=64mm 125 Izod Impact, notched 80*10*4 sp=64mm 125 Izod Impact, notched 80*10*4 sp=64mm 125 Izod Impact 125 Izod Imp) 3 E-05 E-05) 4	kJ/m² kJ/m² °C °C 1/°C 1/°C °C °C	ISO 180/1U ISO 180/1A ASTM D648 ASTM D648 ASTM D696 ASTM D696 ISO 75/Bf ISO 75/Af UL 746B
Ize of Impact, noticed 80°10°4 *2°2°C 160°C 180°C	Izod Impact, notched 80*10*4 +23°C 16 THERMAL (1)) 3 E-05 E-05) 4	°C °C 1/°C 1/°C °C °C °C °C	ASTM D648 ASTM D648 ASTM D696 ASTM D696 ISO 75/Bf ISO 75/Af UL 746B
THERRIAL II** HDT, 0.45 MPa, 3.2 mm, unannealed 260 °C ASTM 0648 HDT, 1.82 MPa, 3.2 mm, unannealed 253 °C ASTM 0648 HDT, 1.82 MPa, 3.2 mm, unannealed 252 °C ASTM 0696 CTE, 30°C to 30°C, tilow 6.26.05 I °C ASTM 0696 CTE, 30°C to 30°C, tilow 259 °C 150.75 Jkl HDT JAI, 1.8 MPa Flatw 80°10°4 spe-64mm 244 °C 10.7468 HDT JAI, 1.8 MPa Flatw 80°10°4 spe-64mm 249 °C U.7468 Relative Temp Index, Mech ylinpact (°I) 125 °C U.7468 Relative Temp Index, Mech ylinpact (°I) 125 °C U.7468 Relative Temp Index, Mech ylinpact (°I) 15 S S SIM 0592 Relative Temp Index, Mech ylinpact (°I) 15 S S SIM 0592 Relative Temp Index, Mech ylinpact (°I) 16 S ASTM 0592 Molsture Dalo, (S°X RH/24 hrs) 16 S ASTM 0592 Molsture Dalo, (S°X RH/24 hrs) 12 S ASTM 0595	THERMAL (1) HDT, 0.45 MPa, 3.2 mm, unannealed 260 HDT, 1.82 MPa, 3.2mm, unannealed 253 CTE, -30°C to 30°C, flow 3.2E CTE, -30°C to 30°C, xflow 6.2E HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 259 HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 244 Relative Temp Index, Elec (2) 130 Relative Temp Index, Mech w/impact (2) 125 Relative Temp Index, Mech w/o impact (2) 125 PHYSICAL (1) Specific Gravity 1.5 Moisture Absorption, (23°C/50% RH/24 hrs) 0.66	E-05 E-05 D	°C °C 1/°C 1/°C °C °C °C	ASTM D648 ASTM D648 ASTM D696 ASTM D696 ISO 75/Bf ISO 75/Af UL 746B
HDT. 0.45 MPa. 3.2 mm, unannealed 260 C** ASTM D648 HDT. 1.82 MPa. 3.2 mm, unannealed 250 C** ASTM D648 CTE. 30°C to 30°C, flow 3.260 1.°C ASTM D648 CTE. 30°C to 30°C, flow 250 1.°C ASTM D696 DTD [R]. 0.45 MPa Flatw 80°10°4 sp=64mm 259 C 50.75 /β BDT [A]. 1.8 MPa Flatw 80°10°4 sp=64mm 244 C 50.75 /β Relative Temp Index, Mech w/Impact (°) 120 C 10.74 68 Relative Temp Index, Mech w/Impact (°) 125 C 0.17 48 Relative Temp Index, Mech w/Impact (°) 125 C 0.17 46 Relative Temp Index, Mech w/Impact (°) 125 C 0.17 46 Moltstre Also reptine (23°C/50% RH/24 hrs) 26 27 ASTM D792 Mold Shrinkage, flow, 24 hrs (°) 22-04 3 ASTM D595 Moltstre Also reptine (23°C/50% RH/24 hrs) 148 9 0.62 2 Moltstre Also reptine (23°C/50% RH/24 hrs) 15 3 10 2 2 Bestite (23°C/50%	HDT, 0.45 MPa, 3.2 mm, unannealed 260 HDT, 1.82 MPa, 3.2mm, unannealed 253 CTE, -30°C to 30°C, flow 3.2E CTE, -30°C to 30°C, xflow 6.2E HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 259 HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 244 Relative Temp Index, Elec (2) 130 Relative Temp Index, Mech w/impact (2) 125 Relative Temp Index, Mech w/o impact (2) 125 PHYSICAL (1) 5 Specific Gravity 1.5 Moisture Absorption, (23°C/50% RH/24 hrs) 0.66	6-05 E-05 0 4	°C 1/°C 1/°C °C °C °C	ASTM D648 ASTM D696 ASTM D696 ISO 75/Bf ISO 75/Af UL 746B
HDT. 1.82 MPa. 3.2mm, unannealed 253 °C ASTM D684 CTE. 30°C to 30°C, flow 3.26 Os 1,°C ASTM D696 CTE, 30°C to 30°C, flow 6.26 Os 1,°C ASTM D696 CTE, 30°C to 30°C, flow 6.20 Os 1,°C ASTM D696 CTD, JB, LAS MPa Flatw 80°10°4 spe4mm 299 C 150 75 /ld HDTJ, JL, SA MPa Flatw 80°10°4 spe4mm 244 °C 150 75 /ld Relative Temp Index, Mech 91°04 spe4mm 213 °C 10.74 68 Relative Temp Index, Mech 91°04 spe4mm 125 °C 10.74 68 Relative Temp Index, Mech 91°04 page 10°04 21 2.74 68 </th <th>HDT, 1.82 MPa, 3.2mm, unannealed 253 CTE, -30°C to 30°C, flow 3.2E CTE, -30°C to 30°C, xflow 6.2E HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 259 HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 244 Relative Temp Index, Elec (2) 130 Relative Temp Index, Mech w/impact (2) 125 Relative Temp Index, Mech w/o impact (2) 125 PHYSICAL (1) Specific Gravity 1.5 Moisture Absorption, (23°C/50% RH/24 hrs) 0.66</th> <th>6-05 E-05 0 4</th> <th>°C 1/°C 1/°C °C °C °C</th> <th>ASTM D648 ASTM D696 ASTM D696 ISO 75/Bf ISO 75/Af UL 746B</th>	HDT, 1.82 MPa, 3.2mm, unannealed 253 CTE, -30°C to 30°C, flow 3.2E CTE, -30°C to 30°C, xflow 6.2E HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 259 HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 244 Relative Temp Index, Elec (2) 130 Relative Temp Index, Mech w/impact (2) 125 Relative Temp Index, Mech w/o impact (2) 125 PHYSICAL (1) Specific Gravity 1.5 Moisture Absorption, (23°C/50% RH/24 hrs) 0.66	6-05 E-05 0 4	°C 1/°C 1/°C °C °C °C	ASTM D648 ASTM D696 ASTM D696 ISO 75/Bf ISO 75/Af UL 746B
CFE, 30°C to 30°C, flow 3.2E-05 1,°C ASM De96 CTE, 30°C to 30°C, flow 6.2E-05 1,°C ASM De96 BDT/BI, 0.4S MPA Flatw 80°10°4 sp=64mm 299 °C 150 75/B BDT/BI, 1.8 MPA Flatw 80°10°4 sp=64mm 299 °C 150 75/B BElative Temp Index, Mech 910°4 sp=64mm 130 °C 174 6B Relative Temp Index, Mech 910°4 specific 125 °C 174 6B Relative Temp Index, Mech 910°4 specific 125 °C 174 6B Relative Temp Index, Mech 910°4 specific 125 °C 174 6B Relative Temp Index, Mech 910°4 specific 125 °C 174 6B Mosture Absorption (23°C 50% MH24 hrs) 166 9 ASTM D95 Molsture Absorption (23°C 50% MH24 hrs) 1-2 4 ASTM D95 Desity 1-3 4 9 ASTM D95 Bodity Arriva (30°C 50% MH24 hrs) 1-2 4 9 10 2 Bodity Arriva (30°C 50% MH24 hrs) 1-2 4 9 10 2 10 <	CTE, -30°C to 30°C, flow 3.26 CTE, -30°C to 30°C, xflow 6.26 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 259 HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 244 Relative Temp Index, Elec (2) 130 Relative Temp Index, Mech w/impact (2) 125 Relative Temp Index, Mech w/o impact (2) 125 PHYSICAL (1) 5 Specific Gravity 1.5 Moisture Absorption, (23°C/50% RH/24 hrs) 0.66	E-05 E-05 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/°C 1/°C °C °C °C	ASTM D696 ASTM D696 ISO 75/Bf ISO 75/Af UL 746B
CFE, 30°C to 30°C, xllow 6.2655 1°C ASTM D696 HDT/Bf, 0.45 MPa Flatw 80°10°4 sp=64mm 299 °C 150.75 /bt Relative Temp Index, Elec ⁽²⁾ 130 °C 10.74 6B Relative Temp Index, Elec ⁽²⁾ 130 °C U.746B Relative Temp Index, Mech w/Impact ⁽²⁾ 125 °C U.746B Relative Temp Index, Mech w/Impact ⁽²⁾ 125 °C U.746B Relative Temp Index, Mech w/Impact ⁽²⁾ 125 °C U.746B Relative Temp Index, Mech w/Impact ⁽²⁾ 125 °C U.746B Relative Temp Index, Mech w/Impact ⁽²⁾ 125 °C STM D95 Relative Temp Index, Mech w/Impact ⁽²⁾ 12 STM D95 STM D95 Both State Absorption (23°C/50% RH/24 hrs) 0.66 % ASTM D95 Molsture Absorption (23°C/50% RH/24 hrs) 1-3 % ASTM D95 Boil State Absorption (23°C/50% RH) 1.5 m M O 2.2 HotWire Ightion (HWI), PLC 4 1.5 m U.746A U.746A U.746A U	CTE, -30°C to 30°C, xflow 6.2E HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 259 HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 244 Relative Temp Index, Elec (2) 130 Relative Temp Index, Mech w/impact (2) 125 Relative Temp Index, Mech w/o impact (2) 125 PHYSICAL (1) Specific Gravity 1.5 Moisture Absorption, (23°C/50% RH/24 hrs) 0.66	E-05	°C °C °C °C	ASTM D696 ISO 75/Bf ISO 75/Af UL 746B
HDT/Bf. 0.45 MPa Flatw 80°10°4 sp=64mm 259 °C ISO 75/Bf HDT/Af. 1.8 MPa Flatw 80°10°4 sp=64mm 244 °C ISO 75/Bf Relative Temp Index, Elec ⁽²⁾ 130 °C U.746B Relative Temp Index, Mech w/impact ⁽²⁾ 125 °C U.746B Relative Temp Index, Mech w/impact ⁽²⁾ 125 °C U.746B PHYSICAL ⁽¹⁾ V C C W.174B Specific Gravity 15 ASTM 0792 Moisture Absorption, (23°C/50% RH/24 hrs) 0.66 % ASTM 0792 Moild Shrinkage, flow, 24 hrs ⁽³⁾ 0.2 - 0.4 % ASTM 0795 Moild Shrinkage, flow, 24 hrs ⁽³⁾ 1.3 % ASTM 0795 Moisture Absorption (23°C/50% RH/24 hrs) 1.4 % ASTM 0795 Moisture Absorption (23°C/50% RH) 1.4 % M M DI 183 Moisture Absorption (140), PLC 4 1.5 m U.746A M M U.746A Hoth William Arc Ignition (HWI), PLC 4 1.5 m U.746A M	HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 259 HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 244 Relative Temp Index, Elec (2) 130 Relative Temp Index, Mech w/impact (2) 125 Relative Temp Index, Mech w/o impact (2) 125 PHYSICAL (1) Specific Gravity 1.5 Moisture Absorption, (23°C/50% RH/24 hrs) 0.66		°C °C °C	ISO 75 Bf ISO 75 Af UL 746B
HDT/Af. 1.8 MPa Flatw 80°10°4 sp=64mm 244 °C U7 768 Relative Temp Index, Elec ⁽²⁾ 130 °C U7 468 Relative Temp Index, Mech w/impact ⁽²⁾ 125 °C U7 468 Relative Temp Index, Mech w/impact ⁽²⁾ 125 °C U7 468 PHYSICAL.** Specific Gravity 5 ASTM D792 Moisture Absorption, (23°C/50% RH/24 hrs) 0.66 \$ ASTM D792 Mold Shrinkage, fflow, 24 hrs ⁽³⁾ 1-3 \$ ASTM D955 Mold Shrinkage, xflow, 24 hrs ⁽³⁾ 148 g/cm³ I50 183 Moisture Absorption (23°C / 50% RH) 1 m I50 62 ELECTRICAL.** 1 TY 46A Moisture Absorption (23°C / 50% RH) 1 TY 46A TY 46A High Amp Arc Ignition (HWI), PLC 4 2 TY 46A TY 46A High Amp Arc Ignition (HAI), PLC 0 2 TY 46A TY 46A High Amp Arc Ignition (HAI), PLC 1 2 TY 46A TY 46A High Voltage Arc Track Rate (PLC) 1 TY 46A<	HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 244 Relative Temp Index, Elec (2) 130 Relative Temp Index, Mech w/impact (2) 125 Relative Temp Index, Mech w/o impact (2) 125 PHYSICAL (1) Specific Gravity 1.5 Moisture Absorption, (23°C/50% RH/24 hrs) 0.666		°C °C	ISO 75/Af UL 746B
Relative Temp Index, Elec (a)130°C11746BRelative Temp Index, Mech w/ impact (a)125°C11746BRelative Temp Index, Mech w/ impact (a)125°C11746BPHYSICAL***Specific Gravity1.52ASTM D792Moisture Absorption (23°C/50% RH/24 hrs)1.62ASTM D570Mold Shrinkage, flow, 24 hrs (a)1.22ASTM D575Mold Shrinkage, flow, 24 hrs (a)1.23ASTM D575Mold Shrinkage, flow, 24 hrs (a)1.23ASTM D575Density1.48g/cm³150 1183Moisture Absorption (23°C / 50% RH)1.48g/cm³150 183Moisture Absorption (140), PLC 01.231010High Amp Arc Ignition (HM), PLC 02.3mmU. 746AHigh Amp Arc Ignition (HAI), PLC 11.51.51010High Amp Arc Ignition (HAI), PLC 11.51.51010High CHARACTERISTICS**1.51.51.51.5U. Vellow Card Link1.51.51.51.51.5U. Vellow Card Link1.51.51.51.51.5Diving Temperature802.51.51.5Diving Temperature401.51.51.5Boilton Moisture Content411.51.51.5Link Content1.51.51.51.51.5	Relative Temp Index, Elec (2) 130 Relative Temp Index, Mech w/impact (2) 125 Relative Temp Index, Mech w/o impact (2) 125 PHYSICAL (1) Specific Gravity 1.5 Moisture Absorption, (23°C/50% RH/24 hrs) 0.66		°C	UL 746B
Relative Temp Index, Mech w/ impact (2)125°CU. 7468Relative Temp Index, Mech w/ o impact (2)125°CU. 7468PHYSICAL (1)Specific Gravity1.5S.S.ASTM D792Moisture Absorption (23°C/50% RH/24 hrs)0.6%ASTM D570Mold Shrinkage, flow, 24 hrs (3)1.2%ASTM D955Mold Shrinkage, xflow, 24 hrs (3)1.2%ASTM D955Density1.4%Mol Moly Moly Moly Moly Moly Moly Moly M	Relative Temp Index, Mech w/impact (2) Relative Temp Index, Mech w/o impact (2) PHYSICAL (1) Specific Gravity 1.5 Moisture Absorption, (23°C/50% RH/24 hrs) 1.50		°C	
Relative Temp Index, Mech w/o impact (*)15"CU.7 468Physical (*)Specific Gravity1.53.53.53.53.5Moisture Absorption, (23°C/50% RH/24 hrs)0.663.03.53.53.5Moid Shrinkage, flow, 24 hrs (*)1.23.23.53.53.5Desity1.23.23.53.53.5Moisture Absorption (23°C/50% RH)1.23.23.53.53.5Boshity1.23.23.53.53.5Butter Absorption (23°C/50% RH)1.53.23.53.53.5Bigh Amp Are Ignition (HMI), PLC 43.53.23.23.23.2High Amp Are Ignition (HAI), PLC 03.23.23.23.23.23.2High Amp Are Ignition (HAI), PLC 13.53.23.23.23.23.2High Amp Are Ignition (HAI), PLC 13.53.23.23.23.23.2High Voltage Are Track Rate (PlC)3.13.23.23.23.23.23.2High Voltage Are Track Rate (PlC)5.21.23.23.23.23.23.2Li Yellow Card Link5.25.25.23.23.23.23.23.2Li Yellow Card Link5.25.25.23.23.23.23.23.23.23.23.23.23.23.23.23.23.23.23.23.23.23.2	Relative Temp Index, Mech w/o impact (2) PHYSICAL (1) Specific Gravity 1.5 Moisture Absorption, (23°C/50% RH/24 hrs) 0.66	5		III 746B
PHYSICA. (¹) Specific Gravity 1.5 3.6 3.5 ASTM D792 Moisture Absorption, (23°C/50% RH/24 hrs) 0.6 \$ ASTM D570 Mold Shrinkage, flow, 24 hrs (³) 0.2 − 0.4 \$ ASTM D955 Mold Shrinkage, xflow, 24 hrs (³) 1-3 \$ ASTM D955 Boshity 1.48 \$ \$ \$ \$ Moisture Absorption (23°C / 50% RH) 1 3 \$	PHYSICAL ⁽¹⁾ Specific Gravity 1.5 Moisture Absorption, (23°C/50% RH/24 hrs) 0.66		°C	02 1 100
Specific Gravity1.54.7ATM D792Moisture Absorption, (23°C/50%RH/24 hrs)0.66%ATM D570Mold Shrinkage, flow, 24 hrs (3)0.2 – 0.4%ATM D955Mold Shrinkage, xflow, 24 hrs (3)1 – 3%ATM D955Density1,48g/cm³150 1183Moisture Absorption (23°C / 50%RH)1%50 62ELECTRICAL (1)****150 62Hot-Wire Ignition (HWI), PLC 42.5mm0.7 46AHigh Amp Arc Ignition (HAI), PLC 03mm0.1746AHigh Amp Arc Ignition (HAI), PLC 12.15mm0.1746AHigh Voltage Arc Track Rate (PLC)11.5mm0.1746AHUYellow Card Link£121562-101281587111U. Yellow Card Link£121562-101281587111INECTION MOLDING (4)******Drying Temperature80******Drying Time44****Maximum Moisture Content0.15 – 0.25****	Specific Gravity 1.5 Moisture Absorption, (23°C/50% RH/24 hrs) 0.66			UL 746B
Moisture Absorption, (23°C/50% RH/24 hrs)0.66%ASTM D570Mold Shrinkage, flow, 24 hrs (3)0.2 – 0.4%ASTM D955Mold Shrinkage, xflow, 24 hrs (3)1 – 3%ASTM D955Density1.48g/cm³ISO 1183Moisture Absorption (23°C / 50% RH)12yiso 62ELECTRICAL (1)WWU 746AHigh Amp Arc Ignition (HWI), PLC 42.5mmU 746AHigh Amp Arc Ignition (HAI), PLC 023mmU 746AHigh Amp Arc Ignition (HAI), PLC 12.5mmU 746AHigh Voltage Arc Track Rate (PLC)12.5mmU 746AHUYellow Card Link£121562-101281587UL Recognized, 94HB Flame Class Rating1.5mmU 94INECTION MOLDING (4)2Drying Temperature80Drying Temperature4Boximum Moisture Content4Maximum Moisture Content5.5 – 0.5	Moisture Absorption, (23°C/50% RH/24 hrs) 0.66			
Mold Shrinkage, flow, 24 hrs (3)0.2 - 0.4%ASTM D955Mold Shrinkage, xflow, 24 hrs (3)1 - 3%ASTM D955Density1.48g/cm³ISO 1183Moisture Absorption (23°C / 50%RH)1%SO 2ELECTRICAL (1)*********************************			-	ASTM D792
Mold Shrinkage, xflow, 24 hrs (³)1-3%ASTM D955Density1.48g/cm³ISO 1183Moisture Absorption (23°C / 50% RH)12%150 62ELECTRICAL (¹)*********************************		5	%	ASTM D570
Density1.48g/cm³ISO 1183Moisture Absorption (23°C / 50% RH)1250 62ELECTRICAL (¹)Hot-Wire Ignition (HWI), PLC 4≥1.5mmU. 746AHigh Amp Arc Ignition (HAI), PLC 0≥3mmU. 746AHigh Amp Arc Ignition (HAI), PLC 1≥1.5mmU. 746AHigh Voltage Arc Track Rate {PLC}1PLC CodeU. 746AUL Yellow Card Link£121562-101281587UL Yellow Card Link£121562-101281587UNECTION MOLDING (⁴)mmU. 94Drying Temperature80°C-Drying Time4HrsMaximum Moisture Content0.15 - 0.25%	Mold Shrinkage, flow, 24 hrs (3)	- 0.4	%	ASTM D955
Moisture Absorption (23°C / 50% RH) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mold Shrinkage, xflow, 24 hrs ⁽³⁾	3	%	ASTM D955
ELECTRICAL (1) Hot-Wire Ignition (HWI), PLC 4 21.5 mm 0 UL 746A High Amp Arc Ignition (HAI), PLC 0 23 mm 0 UL 746A High Amp Arc Ignition (HAI), PLC 1 21.5 mm 0 UL 746A High Amp Arc Ignition (HAI), PLC 1 21.5 mm 0 UL 746A High Voltage Arc Track Rate (PLC) 1 21.5 mm 0 UL 746A FLAME CHARACTERISTICS (2) UL Yellow Card Link 21.5 mm 0 UL 746A UL Recognized, 94HB Flame Class Rating 21.5 mm 0 UL 94 FUNECTION MOLDING (4) Drying Temperature 80 A 20 A 3 A 4 A 5 A 5 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7	Density 1.48	8	g/cm³	ISO 1183
Hot-Wire Ignition (HWI), PLC 4≥1.5mmUL 746AHigh Amp Arc Ignition (HAI), PLC 0≥3mmUL 746AHigh Amp Arc Ignition (HAI), PLC 1≥1.5mmUL 746AHigh Voltage Arc Track Rate {PLC}1PLC CodeUL 746ALAME CHARACTERISTICS (2)UL Yellow Card Link£121562-101281587UL Recognized, 94HB Flame Class Rating≥1.5mmUL 94INJECTION MOLDING (4)Drying Temperature80°CDrying Time4HrsMaximum Moisture Content0.15-0.25%	Moisture Absorption (23°C / 50% RH)		%	ISO 62
High Amp Arc Ignition (HAI), PLC 0 ≥3.0 mm UL 746A High Amp Arc Ignition (HAI), PLC 1 ≥1.5 mm UL 746A High Voltage Arc Track Rate {PLC} 1 PC Code UL 746A FLAME CHARACTERISTICS (2) UL 746A LI Yellow Card Link	ELECTRICAL (1)			
High Amp Arc Ignition (HAI), PLC 1 21.5 21.5 mm mm UL 746A High Voltage Arc Track Rate {PLC} 1 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21	Hot-Wire Ignition (HWI), PLC 4 ≥1.5	5	mm	UL 746A
High Voltage Arc Track Rate {PLC} 12 12 12 12 12 12 12 12 12 12 12 12 12	High Amp Arc Ignition (HAI), PLC 0 ≥3		mm	UL 746A
FLAME CHARACTERISTICS (2) UL Yellow Card Link Flame Class Rating Flam	High Amp Arc Ignition (HAI), PLC 1 ≥1.5	5	mm	UL 746A
UL Yellow Card LinkE121562-101281587UL Recognized, 94HB Flame Class Rating≥1.5mmUL 94INJECTION MOLDING (4)Drying Temperature80°C-Drying Time4Hrs-Maximum Moisture Content0.15 - 0.25%-	High Voltage Arc Track Rate {PLC}		PLC Code	UL 746A
UL Recognized, 94HB Flame Class Rating≥1.5mmUL 94INJECTION MOLDING (4)Drying Temperature80°CDrying Time4HrsMaximum Moisture Content0.15 - 0.25%	FLAME CHARACTERISTICS (2)			
INJECTION MOLDING ⁽⁴⁾ Drying Temperature 80 °C Drying Time 4	UL Yellow Card Link <u>E12</u>	21562-101281587	-	-
Drying Temperature80°CDrying Time4HrsMaximum Moisture Content0.15 - 0.25%	UL Recognized, 94HB Flame Class Rating ≥1.5	5	mm	UL 94
Drying Time 4 Hrs Maximum Moisture Content 0.15 - 0.25 %	INJECTION MOLDING (4)			
Maximum Moisture Content 0.15 – 0.25 %	Drying Temperature 80		°C	
	Drying Time 4		Hrs	
Melt Temperature 280 – 305 °C	Maximum Moisture Content 0.15	5 – 0.25	%	
	Melt Temperature 280) – 305	°C	
Front - Zone 3 Temperature 295 – 305 °C	Front - Zone 3 Temperature 295	5 – 305	°C	
Middle - Zone 2 Temperature 280 – 295 °C	Middle - Zone 2 Temperature 280) – 295	°C	
Rear - Zone 1 Temperature 265 – 275 °C	Rear - Zone 1 Temperature 265	5 – 275	°C	
	Mold Temperature 95 -	- 110	°C	
Mold Temperature 95 – 110 °C	Back Pressure 0.2	- 0.3	MPa	
·	Screw Speed 30 -		rpm	

⁽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.



MORE INFORMATION

For curve data and CAE cards, please visit and register at https://materialfinder.sabic-specialties.com

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