

SABIC Innovative Plastics NORYL LTA6020 PPE+PS (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-LTA6020-PPEPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Melt Flow	4.0 g/10 min	4.0 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 250 Â°C	@Load 22.0 lb, Temperature 482 Â°F	
Melt Index of Compound	8.0 g/10 min	8.0 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 280 Â°C	@Load 11.0 lb, Temperature 536 Â°F	
	20 g/10 min	20 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 300 Â°C	@Load 11.0 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	57.0 MPa	8270 psi	50 mm/min; ISO 527
Tensile Strength, Yield	71.0 MPa	10300 psi	50 mm/min; ISO 527
	72.0 MPa	10400 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	8.0 %	8.0 %	50 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527
	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.68 GPa	389 ksi	1 mm/min; ISO 527
Flexural Yield Strength	105 MPa	15200 psi	2.6 mm/min, 100 mm span; ASTM D790
	105 MPa	15200 psi	2 mm/min; ISO 178
Flexural Modulus	2.58 GPa	374 ksi	2.6 mm/min, 100 mm span; ASTM D790
	2.60 GPa	377 ksi	2 mm/min; ISO 178

Izod Impact, Notched Mechanical Properties	2.20 J/cm Metric	4.12 ft-lb/in English	ASTM D256 Comments
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1A
	8.00 kJ/m ² @Temperature -30.0 Â°C	3.81 ft-lb/in ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
	8.00 kJ/m ² @Temperature -40.0 Â°C	3.81 ft-lb/in ² @Temperature -40.0 Â°F	80*10*4; ISO 180/1A
	10.0 kJ/m ² @Temperature -20.0 Â°C	4.76 ft-lb/in ² @Temperature -4.00 Â°F	80*10*4; ISO 180/1A
	11.0 kJ/m ² @Temperature -10.0 Â°C	5.23 ft-lb/in ² @Temperature 14.0 Â°F	80*10*4; ISO 180/1A
	12.0 kJ/m ² @Temperature 0.000 Â°C	5.71 ft-lb/in ² @Temperature 32.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact Unnotched	1.80 J/cm²	8.57 ft-lb/in²	ISO 179/2C

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	44.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	80.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	44.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Hot Ball Pressure Test	125 Â°C	257 Â°F	IEC 60695-10-2
	<= 135 Â°C	<= 275 Â°F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	136 Â°C	277 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	123 Â°C	253 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	126 Â°C @Thickness 6.40 mm	259 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	144 Â°C	291 Â°F	Rate B/120; ISO 306
	155 Â°C	311 Â°F	Rate A/120; ISO 306

Thermal Properties	Metric	English	Comments
UL RTI, Mechanical with Impact	125 Â°C	257 Â°F	UL 746B
UL RTI, Mechanical without Impact	125 Â°C	257 Â°F	UL 746B
Flammability, UL94	V-1	V-1	UL 94
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	V-0	V-0	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	UL 94
	@Thickness 2.50 mm	@Thickness 0.0984 in	
Glow Wire Test	825 Â°C	1520 Â°F	IEC 60695-2-13
	825 Â°C	1520 Â°F	IEC 60695-2-13
	825 Â°C	1520 Â°F	IEC 60695-2-13
	825 Â°C	1520 Â°F	IEC 60695-2-13
	960 Â°C	1760 Â°F	IEC 60695-2-12
@Thickness 1.00 mm	@Thickness 0.0394 in		

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 - 400 V	250 - 400 V	UL 746A

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