

SABIC Innovative Plastics NORYL N1250 PPE+HIPS (Asia Pacific)

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

Material Notes:

Noryl* N1250 is an unfilled, injection moldable modified polyphenylene ether resin. Designed for good dimensional stability and good flow , this resin also uses non-chlorinated, non-brominated FR additives to achieve a V0 UL94 rating at 0.75 mm and V0-5VA at 2.5 mm with a specific density of 1.11 g/cm³. Noryl N1250 has a heat Vicat resistance of 137 deg C and it may be an excellent material candidate for application requiring electrically insu

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Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-N1250-PPEHIPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ASTM D570
Moisture Absorption	0.0500 %	0.0500 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.25 %	0.25 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Time 86400 sec	0.0050 in/in @Time 24.0 hour	ISO 294
	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Index of Compound	12 g/10 min @Load 5.00 kg, Temperature 280 Â°C	12 g/10 min @Load 11.0 lb, Temperature 536 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	50 mm/min; ISO 527
	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	68.0 MPa	9860 psi	SABIC - Japan Method
	75.0 MPa	10900 psi	50 mm/min; ISO 527
	79.0 MPa	11500 psi	Type I, 50 mm/min; ASTM D638

Elongation at Break Mechanical Properties	8.0 % Metric	8.0 % English	50 mm/min; ISO 527 Comments
	15 %	15 %	Type I, 50 mm/min; ASTM D638
	45 %	45 %	SABIC - Japan Method
Elongation at Yield	4.5 %	4.5 %	50 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.62 GPa	380 ksi	1 mm/min; ISO 527
	2.72 GPa	395 ksi	50 mm/min; ASTM D638
Flexural Strength	107 MPa	15500 psi	ASTM D790
Flexural Yield Strength	109 MPa	15800 psi	2 mm/min; ISO 178
	122 MPa	17700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.53 GPa	367 ksi	2 mm/min; ISO 178
	2.54 GPa	368 ksi	ASTM D790
	3.00 GPa	435 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.910 J/cm	1.70 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	80*10*4; ISO 180/1A
	6.00 kJ/mÂ² @Temperature -30.0 Â°C	2.86 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.700 J/cmÂ²	3.33 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	38.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	TMA
CTE, linear, Parallel to Flow	61.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	33.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	68.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	37.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa	136 Â°C	277 Â°F	

Thermal Properties	Metric @ Thickness 6.40 mm	English @ Thickness 0.252 in	Comments
Deflection Temperature at 1.8 MPa (264 psi)	119 Â°C	246 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	125 Â°C @Thickness 6.40 mm	257 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	139 Â°C	282 Â°F	Rate B/120; ISO 306
UL RTI, Electrical	110 Â°C	230 Â°F	UL 746B
UL RTI, Mechanical with Impact	105 Â°C	221 Â°F	UL 746B
UL RTI, Mechanical without Impact	110 Â°C	230 Â°F	UL 746B
Flammability, UL94	V-2 @Thickness 0.400 mm	V-2 @Thickness 0.0157 in	UL 94 by SABIC-IP
	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	UL 94
	5VB @Thickness 2.50 mm	5VB @Thickness 0.0984 in	UL 94 by SABIC-IP
	5VA @Thickness 2.50 mm	5VA @Thickness 0.0984 in	UL 94

Electrical Properties	Metric	English	Comments
Dielectric Strength	49.0 kV/mm @Thickness 3.20 mm	1240 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
Comparative Tracking Index	250 V	250 V	IEC 60112
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Â°C +/- 2Â°C	Pass	IEC 60695-10-2

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