

SABIC Innovative Plastics NORYL PCN2910 PPE+PS (Asia Pacific)

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

Material Notes:

35% Glass/Mica filled. High modulus and tight tolerance molding for the chassis market.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PCN2910-PPEPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0025 - 0.0030 cm/cm	0.0025 - 0.0030 in/in	SABIC Method
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 300 Â°C	11 g/10 min @Load 4.76 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	115 MPa	16700 psi	Type I, 10 mm/min; SABIC - Japan Method
Tensile Strength, Yield	106 MPa	15400 psi	5 mm/min; ISO 527
	123 MPa	17800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.3 %	1.3 %	5 mm/min; ISO 527
	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	Type I, 10 mm/min; SABIC - Japan Method
Tensile Modulus	10.6 GPa	1540 ksi	1 mm/min; ISO 527
	11.37 GPa	1649 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	159 MPa	23100 psi	2.6 mm/min, 100 mm span; ASTM D790
	160 MPa	23200 psi	2 mm/min; ISO 178
Flexural Modulus	8.94 GPa	1300 ksi	2.6 mm/min, 100 mm span; ASTM D790
	9.13 GPa	1320 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.680 J/cm	1.27 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.31 J/cm	6.20 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A

Mechanical Properties (ISO)	Metric /mÂ²	English lb/inÂ²	Comments D 180/1U
Charpy Impact Unnotched	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	0.400 J/cmÂ²	1.90 ft-lb/inÂ²	ISO 179/2C
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	2.10 - 3.30 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	1.17 - 1.83 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	TMA
Deflection Temperature at 1.8 MPa (264 psi)	129 Â°C	264 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	140 Â°C	284 Â°F	Rate B/50; ASTM D1525
UL RTI, Electrical	65.0 Â°C	149 Â°F	UL 746B
UL RTI, Mechanical with Impact	65.0 Â°C	149 Â°F	UL 746B
UL RTI, Mechanical without Impact	65.0 Â°C	149 Â°F	UL 746B
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	UL 94
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	UL 94
	5VB @Thickness 2.30 mm	5VB @Thickness 0.0906 in	UL 94

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