

SABIC Innovative Plastics LNP THERMOCOMP 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-LNP-THERMOCOMP-NorylPCN2910-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	0.0010 - 0.0030 cm/cm @Thickness 3.20 mm	0.0010 - 0.0030 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 300 Â°C	10 g/10 min @Load 11.0 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	106 MPa	15400 psi	5 mm/min; ISO 527
	122 MPa	17700 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	106 MPa	15400 psi	5 mm/min; ISO 527
	122 MPa	17700 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	1.3 %	1.3 %	5 mm/min; ISO 527
	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	10.6 GPa	1540 ksi	1 mm/min; ISO 527
	11.37 GPa	1649 ksi	5 mm/min; ASTM D638
Flexural Strength	151 MPa	21900 psi	2.6 mm/min, 100 mm span; ASTM D790
	160 MPa	23200 psi	2 mm/min; ISO 178

Mechanical Properties	165 MPa Metric	23900 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Flexural Yield Strength	160 MPa	23200 psi	2 mm/min; ISO 178
Flexural Modulus	8.75 GPa	1270 ksi	2.6 mm/min, 100 mm span; ASTM D790
	9.13 GPa	1320 ksi	2 mm/min; ISO 178
	9.79 GPa	1420 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.580 J/cm	1.09 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
Izod Impact, Unnotched (ISO)	14.0 kJ/mÂ²	6.66 ft-lb/inÂ²	80*10*4; ISO 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, Parallel to Flow	21.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	12.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	46.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	26.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	129 Â°C @Thickness 3.20 mm	264 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	129 Â°C @Thickness 6.40 mm	264 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	129 Â°C	264 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	123 Â°C @Thickness 3.20 mm	253 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	126 Â°C	259 Â°F	unannealed; ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
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	V-1	UL 94
	@Thickness 1.49 mm	@Thickness 0.0587 in	
	V-0	V-0	UL 94
	@Thickness 2.99 mm	@Thickness 0.118 in	
	5VB	5VB	UL 94
	@Thickness 2.28 mm	@Thickness 0.0898 in	

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