

SABIC Innovative Plastics NORYL PPX PPX7112 PPE+PP

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polypropylene (PP)

Material Notes:

PPE+PP blend. Suitable for painted exterior automotive applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PPX-PPX7112-PPEPP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.990 g/cc	0.990 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 - 0.0070 cm/cm @Thickness 3.20 mm	0.0060 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	10.5 g/10 min @Load 5.00 kg, Temperature 260 Â°C	10.5 g/10 min @Load 11.0 lb, Temperature 500 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	33.0 MPa	4790 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	34.0 MPa	4930 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	120 %	120 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	8.0 %	8.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.17 GPa	170 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	49.0 MPa	7110 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.34 GPa	194 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	5.87 J/cm	11.0 ft-lb/in	ASTM D256
Dart Drop, Total Energy	37.0 J @Temperature 23.0 Â°C	27.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	155 Âµm/m-Â°C	86.1 Âµin/in-Â°F	ASTM E 831

Thermal Properties	Metric @Temperature -40.0 - 40.0 Â°C	English @Temperature -40.0 - 104 Â°F	Comments
CTE, linear, Transverse to Flow	72.0 Âµm/m-Â°C	40.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	112 Â°C	234 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	85.0 Â°C	185 Â°F	Rate B/50; ASTM D1525
UL RTI, Electrical	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical with Impact	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical without Impact	50.0 Â°C	122 Â°F	UL 746B
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.52 mm	@Thickness 0.0598 in	

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