

SABIC Innovative Plastics NORYL PPX PPX640 PPE+PP

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

Material Notes:

40% GR PPE+PP. High elongation. high stiffness. NSF Standard 61 Compliant (color limited).

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PPX-PPX640-PPEPP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0017 - 0.0018 cm/cm	0.0017 - 0.0018 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0027 - 0.0061 cm/cm	0.0027 - 0.0061 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	1.3 g/10 min	1.3 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 Â°C	@Load 11.0 lb, Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	95.0 MPa	13800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	6.4 %	6.4 %	Type I, 5 mm/min; ASTM D638
Flexural Strength	150 MPa	21800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.31 GPa	1210 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
	0.960 J/cm	1.80 ft-lb/in	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D256
Izod Impact, Unnotched	5.76 J/cm	10.8 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	14.0 J	10.3 ft-lb	ASTM D3763
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	16.0 J	11.8 ft-lb	ASTM D3763
	@Temperature 23.0	@Temperature 73.4 Â°F	

Mechanical Properties	^{Â°C} Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	6.00 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	63.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	35.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	158 Â°C @Thickness 3.20 mm	316 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	146 Â°C @Thickness 3.20 mm	295 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	163 Â°C	325 Â°F	Rate B/50; ASTM D1525

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