

SABIC Innovative Plastics NORYL PPX PPX7115 PPE+PP

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

Material Notes:

High modulus/impact/heat PPE+PP

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PPX-PPX7115-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	0.0060 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	14 g/10 min	14 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 Â°C	@Load 11.0 lb, Temperature 500 Â°F	
Melt Index of Compound	12 g/10 min	12 g/10 min	MVR [cm^3/10 min]; ISO 1133
	@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	34.0 MPa	4930 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	35.0 MPa	5080 psi	Type I, 50 mm/min; ASTM D638
	35.0 MPa	5080 psi	50 mm/min; ISO 527
Elongation at Break	75 %	75 %	50 mm/min; ISO 527
	125 %	125 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	8.0 %	8.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.24 GPa	180 ksi	50 mm/min; ASTM D638
	1.37 GPa	199 ksi	1 mm/min; ISO 527
Flexural Yield Strength	51.0 MPa	7400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.37 GPa	199 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	5.34 J/cm	10.0 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Dart Drop, Total Energy	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D3763
	37.0 J	27.3 ft-lb	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	162 Âµm/m-Â°C	90.0 Âµin/in-Â°F	
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	97.2 Âµm/m-Â°C	54.0 Âµin/in-Â°F	
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	112 Â°C	234 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	86.0 Â°C	187 Â°F	Rate B/50; ASTM D1525
	131 Â°C	268 Â°F	Rate A/50; ISO 306

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