

SABIC Innovative Plastics NORYL PPX PPX7110 PPE+PP

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

Material Notes:

PPE+PP blend. High Impact, Good Heat Resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PPX-PPX7110-PPEPP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0080 - 0.012 cm/cm @Thickness 3.20 mm	0.0080 - 0.012 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	10.6 g/10 min @Load 5.00 kg, Temperature 260 Å°C	10.6 g/10 min @Load 11.0 lb, Temperature 500 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	32.0 MPa	4640 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	35.0 MPa	5080 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	195 %	195 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	6.5 %	6.5 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.34 GPa	194 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	51.0 MPa	7400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.55 GPa	225 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	4.37 J/cm	8.19 ft-lb/in	ASTM D256
	1.49 J/cm @Temperature -30.0 Å°C	2.79 ft-lb/in @Temperature -22.0 Å°F	ASTM D256
Dart Drop, Total Energy	27.0 J @Temperature -30.0 Å°C	19.9 ft-lb @Temperature -22.0 Å°F	ASTM D3763
	37.0 J @Temperature 23.0 Å°C	27.3 ft-lb @Temperature 73.4 Å°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	81.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	45.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	112 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	62.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	113 $\text{Å}^\circ\text{C}$	235 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	77.0 $\text{Å}^\circ\text{C}$	171 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	138 $\text{Å}^\circ\text{C}$	280 $\text{Å}^\circ\text{F}$	Rate B/50; ASTM D1525
UL RTI, Electrical	50.0 $\text{Å}^\circ\text{C}$	122 $\text{Å}^\circ\text{F}$	UL 746B
UL RTI, Mechanical with Impact	50.0 $\text{Å}^\circ\text{C}$	122 $\text{Å}^\circ\text{F}$	UL 746B
UL RTI, Mechanical without Impact	50.0 $\text{Å}^\circ\text{C}$	122 $\text{Å}^\circ\text{F}$	UL 746B
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.52 mm	@Thickness 0.0598 in	

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