

SABIC Innovative Plastics NORYL PPX PPX7115F PPE+PP

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

Material Notes:

High modulus/impact/heat PPE+PP. Compliant with US FDA food contact regulations for temperatures of use of room temperature and below.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PPX-PPX7115F-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	14 g/10 min @Load 5.00 kg, Temperature 260 Â°C	14 g/10 min @Load 11.0 lb, Temperature 500 Â°F	ASTM D1238

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
Elongation at Break	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
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
Dart Drop, Total Energy	37.0 J @Temperature 23.0 Â°C	27.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763
	44.0 J @Temperature -30.0 Â°C	32.5 ft-lb @Temperature -22.0 Â°F	ASTM D3763

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	162 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	90.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	97.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	54.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	112 $\text{Å}^\circ\text{C}$	234 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	85.0 $\text{Å}^\circ\text{C}$	185 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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