

SABIC Innovative Plastics NORYL PPX PPX830 PPE+PP

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

Material Notes:

Noryl* PPX830 Polyphenylene Oxide (PPO*) + Polypropylene (PP) resin is a 30 % Glass Reinforced, injection moldable grade with a HDT /1.8MPa temperature resistance of 153 deg C and a Tensile modulus of 7600 MPa; this grade has been developed for application where dimension stability, temperature and chemical resistance could be required. Noryl PPX830 is an opaque material available in limited colors only.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PPX-PPX830-PPEPP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 - 0.0025 cm/cm @Thickness 3.20 mm	0.0020 - 0.0025 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	6.0 g/10 min @Load 5.00 kg, Temperature 280 Â°C	6.0 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D1238
Melt Index of Compound	6.0 g/10 min @Load 5.00 kg, Temperature 280 Â°C	6.0 g/10 min @Load 11.0 lb, Temperature 536 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	98.0 MPa	14200 psi	5 mm/min; ISO 527
	101 MPa	14600 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	98.0 MPa	14200 psi	5 mm/min; ISO 527
	101 MPa	14600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.2 %	3.2 %	5 mm/min; ISO 527
	101 %	101 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
	3.2 %	3.2 %	5 mm/min; ISO 527

Tensile Modulus Mechanical Properties	7.60 GPa Metric	1100 ksi English	5 mm/min* ASTM D638 Comments
	7.70 GPa	1120 ksi	1 mm/min; ISO 527
Flexural Yield Strength	141 MPa	20500 psi	2 mm/min; ISO 178
	144 MPa	20900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.60 GPa	957 ksi	1.3 mm/min, 50 mm span; ASTM D790
	7.10 GPa	1030 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.950 J/cm	1.78 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.50 J/cm	12.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	42.0 kJ/mÂ²	20.0 ft-lb/inÂ²	80*10*4; ISO 180/1U
	42.0 kJ/mÂ² @Temperature -30.0 Â°C	20.0 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	3.90 J/cmÂ²	18.6 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	3.60 J/cmÂ² @Temperature -30.0 Â°C	17.1 ft-lb/inÂ² @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Dart Drop, Total Energy	10.0 J @Temperature -30.0 Â°C	7.38 ft-lb @Temperature -22.0 Â°F	ASTM D3763
	15.0 J @Temperature 23.0 Â°C	11.1 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Âµm/m-Â°C @Temperature -40.0 - 95.0 Â°C	13.9 Âµin/in-Â°F @Temperature -40.0 - 203 Â°F	ASTM E 831
	25.0 Âµm/m-Â°C @Temperature -30.0 - 80.0 Â°C	13.9 Âµin/in-Â°F @Temperature -22.0 - 176 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	120 Âµm/m-Â°C @Temperature -30.0 -	66.7 Âµin/in-Â°F @Temperature -22.0 -	ISO 11359-2

Thermal Properties	80.0 Â°C Metric	176 Â°F English	Comments
	130 Âµm/m-Â°C	72.2 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 95.0 Â°C	@Temperature -40.0 - 203 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	168 Â°C	334 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	166 Â°C	331 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	153 Â°C	307 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	156 Â°C	313 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	150 Â°C	302 Â°F	Rate B/120; ISO 306
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Glow Wire Test	650 Â°C	1200 Â°F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Â°C +/- 2Â°C	Passes	IEC 60695-10-2

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