

SABIC Innovative Plastics NORYL PPX PPX630 PPE+PP (Europe-Africa-Middle East)

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

Material Notes:

PPX630 is a 30% glass filled alloy of PP and PPO providing design freedom for applications requiring a wide range of stiffness, toughness and temperature. Generic identification acc. ISO11469: PP+PPE-I-GF30

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PPX-PPX630-PPEPP-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Moisture Absorption	0.0400 %	0.0400 %	23 ^o C / 50% RH
Water Absorption at Saturation	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	on Tensile Bar; SABIC Method
Linear Mold Shrinkage, Transverse	0.0020 - 0.0070 cm/cm	0.0020 - 0.0070 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	3.0 g/10 min @Load 5.00 kg, Temperature 260 ^o C	3.0 g/10 min @Load 11.0 lb, Temperature 500 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	75.0 MPa	10900 psi	ISO 2039-1
Tensile Strength at Break	80.0 MPa	11600 psi	5 mm/min; ISO 527
Elongation at Break	4.1 %	4.1 %	5 mm/min; ISO 527
Tensile Modulus	6.60 GPa	957 ksi	1 mm/min; ISO 527
Flexural Strength	120 MPa	17400 psi	2 mm/min; ISO 178
Flexural Modulus	5.50 GPa	798 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1A
	10.0 kJ/m ² @Temperature -30.0 ^o C	4.76 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	48.0 kJ/m ²	22.8 ft-lb/in ²	80*10*4; ISO 180/1U
	46.0 kJ/m ² @Temperature -30.0	21.9 ft-lb/in ² @Temperature -22.0	80*10*4; ISO 180/1U

Mechanical Properties	°C Metric	°F English	Comments
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	5.00 J/cm ² @Temperature -30.0 °C	23.8 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	11.1 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	115 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	63.9 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	155 Å°C	311 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	135 Å°C	275 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	125 Å°C	257 Å°F	Rate B/50; ISO 306
	128 Å°C	262 Å°F	Rate B/120; ISO 306
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94
Glow Wire Test	650 Å°C @Thickness 3.20 mm	1200 Å°F @Thickness 0.126 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ROA; IEC 60093
Dielectric Constant	2.4 @Frequency 1.00e+6 Hz	2.4 @Frequency 1.00e+6 Hz	IEC 60250
	2.4	2.4	

Electrical Properties	Metric	English	Comments
	Hz	Hz	
Dielectric Strength	24.0 kV/mm @Thickness 3.20 mm	610 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
Dissipation Factor	0.00030 @Frequency 50.0 - 60.0 Hz	0.00030 @Frequency 50.0 - 60.0 Hz	IEC 60250
	0.0010 @Frequency 1.00e+6 Hz	0.0010 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	500 V	500 V	IEC 60112

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

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