

SABIC Innovative Plastics NORYL PX5511E PPE+HIPS (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

Noryl PX5511E is an unfilled material with good flow and chemical resistance against cleaners. Noryl PX5511E is developed for personal care applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PX5511E-PPEHIPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.22 %	0.22 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Index of Compound	9.0 g/10 min	9.0 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 300 ^o C	@Load 4.76 lb, Temperature 572 ^o F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	50 mm/min; ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	50 mm/min; ISO 527
Elongation at Break	35 %	35 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Yield Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
Flexural Modulus	2.30 GPa	334 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
	5.00 kJ/m ² @Temperature -30.0 ^o C	2.38 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	1.00 J/cm ²	7.38 ft·lb/in ²	10*4 sp=62mm; ISO 179/1EA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 Åµm/m-Å°C @Temperature 23.0 - 80.0 Å°C	33.3 Åµin/in-Å°F @Temperature 73.4 - 176 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	70.0 Åµm/m-Å°C @Temperature 23.0 - 80.0 Å°C	38.9 Åµin/in-Å°F @Temperature 73.4 - 176 Å°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	130 Å°C	266 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	115 Å°C	239 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	130 Å°C	266 Å°F	Rate B/50; ISO 306
	135 Å°C	275 Å°F	Rate B/120; ISO 306

Descriptive Properties	Value	Comments
Ball Pressure Test, 75Å°C +/- 2Å°C	Passes	IEC 60695-10-2

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