

SABIC Innovative Plastics Noryl PKN4766 PPE+PS (Asia Pacific)

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

Material Notes:

PPE+PS. Translucent. FDA compliant. High flow. Extrusion. Microwavable. Food packaging uses. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-PKN4766-PPEPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	25 g/10 min @Load 5.00 kg, Temperature 300 Â°C	25 g/10 min @Load 11.0 lb, Temperature 572 Â°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	68.0 MPa	9860 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	72.0 MPa	10400 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	10 %	10 %	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	110 MPa	16000 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.93 GPa	425 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.260 J/cm @Temperature 23.0 Â°C	0.487 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Impact Test	2.00 J @Temperature 23.0 Â°C	1.48 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	28.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	16.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	18.0 Âµm/m-Â°C	10.0 Âµin/in-Â°F	ASTM E 831

Thermal Properties	Metric @Temperature -40.0 - 40.0 Â°C	English @Temperature -40.0 - 104 Â°F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	117 Â°C @Thickness 3.20 mm	243 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	104 Â°C @Thickness 3.20 mm	219 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	125 Â°C	257 Â°F	Rate B/50; ASTM D 1525

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