

SABIC Innovative Plastics NORYL PKN4775 PPE+PS (Asia Pacific)

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

Material Notes:

PPE+PS blend. Opaque. FDA compliant in limited colors. High heat. Modulus at elevated temperature. Good ESCR performance. Thin wall extrusion and injection molding. Typical applications include packaging for high performance applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PKN4775-PPEPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.25 %	0.25 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	15.3 g/10 min @Load 5.00 kg, Temperature 300 Â°C	15.3 g/10 min @Load 11.0 lb, Temperature 572 Â°F	ASTM D1238
Melt Index of Compound	14 g/10 min @Load 5.00 kg, Temperature 300 Â°C	14 g/10 min @Load 11.0 lb, Temperature 572 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	Type I, 50 mm/min; ASTM D638
	47.0 MPa	6820 psi	50 mm/min; ISO 527
Tensile Strength, Yield	51.0 MPa	7400 psi	Type I, 50 mm/min; ASTM D638
	51.0 MPa	7400 psi	50 mm/min; ISO 527
Elongation at Break	29.3 %	29.3 %	50 mm/min; ISO 527
	35 %	35 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.1 %	4.1 %	50 mm/min; ISO 527
	5.1 %	5.1 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.12 GPa	307 ksi	5 mm/min; ASTM D638

Mechanical Properties	2.12 GPa Metric	307 ksi English	1 mm/min; ISO 527 Comments
Flexural Yield Strength	78.0 MPa	11300 psi	1.3 mm/min, 50 mm span; ASTM D790
	82.0 MPa	11900 psi	2 mm/min; ISO 178
Flexural Modulus	2.16 GPa	313 ksi	2 mm/min; ISO 178
	2.21 GPa	321 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.68 J/cm	5.02 ft-lb/in	ASTM D256
	1.61 J/cm	3.02 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	20.0 kJ/mÂ²	9.52 ft-lb/inÂ²	80*10*4; ISO 180/1A
	11.0 kJ/mÂ²	5.23 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.90 J/cmÂ²	9.04 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	39.0 J	28.8 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	92.0 Âµm/m-Â°C	51.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	92.0 Âµm/m-Â°C	51.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	95.0 Âµm/m-Â°C	52.8 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	95.0 Âµm/m-Â°C	52.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	138 Â°C	280 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa	122 Â°C	252 Â°F	

(264 psi) Thermal Properties	Metric	English	Flatw 80*10*4 sp=64mm; ISO 75/Af Comments
	122 Â°C	252 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	142 Â°C	288 Â°F	Rate B/50; ASTM D1525
	142 Â°C	288 Â°F	Rate B/50; ISO 306
	144 Â°C	291 Â°F	Rate B/120; ISO 306

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