

SABIC Innovative Plastics NORYL FE8000S PPE+PS (Asia Pacific)

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

Material Notes:

Noryl* FE8000S resin is an unfilled modified polyphenylene ether resin designed for fluid handling applications. This resin is suitable for multiple conversion routes and will be available in custom colors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-FE8000S-PPEPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.23 %	0.23 %	ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	6.0 g/10 min @Load 5.00 kg, Temperature 300 °C	6.0 g/10 min @Load 11.0 lb, Temperature 572 °F	ASTM D1238
Melt Index of Compound	10 g/10 min @Load 10.0 kg, Temperature 300 °C	10 g/10 min @Load 22.0 lb, Temperature 572 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D638
	56.0 MPa	8120 psi	50 mm/min; ISO 527
Tensile Strength, Yield	73.0 MPa	10600 psi	50 mm/min; ISO 527
	75.0 MPa	10900 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	11 %	11 %	Type I, 50 mm/min; ASTM D638
	11 %	11 %	50 mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D638
	6.0 %	6.0 %	50 mm/min; ISO 527
Tensile Modulus	2.45 GPa	355 ksi	1 mm/min; ISO 527

Mechanical Properties	2.50 GPa Metric	363 ksi English	5 mm/min: ASTM D638 Comments
Flexural Yield Strength	102 MPa	14800 psi	1.3 mm/min, 50 mm span; ASTM D790
	107 MPa	15500 psi	2 mm/min; ISO 178
Flexural Modulus	2.56 GPa	371 ksi	2 mm/min; ISO 178
	2.60 GPa	377 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.90 J/cm	5.43 ft-lb/in	ASTM D256
	2.40 J/cm @Temperature -30.0 °C	4.50 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Notched (ISO)	23.0 kJ/m ²	10.9 ft-lb/in ²	80*10*4; ISO 180/1A
	13.0 kJ/m ² @Temperature -30.0 °C	6.19 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	2.20 J/cm ²	10.5 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	1.30 J/cm ² @Temperature -30.0 °C	6.19 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	50.0 J	36.9 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	87.0 µm/m-°C	48.3 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	87.0 µm/m-°C	48.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	93.0 µm/m-°C	51.7 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	93.0 µm/m-°C	51.7 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	163 °C	325 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties (264 psi)	Metric	English	Comments
Stress at Break at 1.8 MPa	149 °C	300 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	167 °C	333 °F	Rate B/50; ASTM D1525
	168 °C	334 °F	Rate B/50; ISO 306
	172 °C	342 °F	Rate B/120; ISO 306

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