

SABIC Innovative Plastics NORYL FE1520PW PPE+PS (Europe-Africa-Middle East)

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

Material Notes:

Noryl* FE1520PW resin is a blend of polyphenylene oxide (PPO) and polystyrene (PS) resin that contains 20% glass reinforcement. The resin is suitable for injection molding. Noryl FE1520PW resin has been developed for fluid engineering applications that require improved hydrolytic stability. Noryl FE1520PW resin has been certified for potable water applications up to 85C in Europe and North America in limited colors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-FE1520PW-PPEPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.060 %	0.060 %	50% RH; ASTM D570
Water Absorption at Saturation	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Index of Compound	22 g/10 min	22 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 10.0 kg, Temperature 280 Â°C	@Load 22.0 lb, Temperature 536 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	119 MPa	17300 psi	Type I, 5 mm/min; ASTM D638
	119 MPa	17300 psi	5 mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
	2.6 %	2.6 %	5 mm/min; ISO 527
Tensile Modulus	7.10 GPa	1030 ksi	5 mm/min; ASTM D638
	7.17 GPa	1040 ksi	1 mm/min; ISO 527
Flexural Strength	165 MPa	23900 psi	2 mm/min; ISO 178
	175 MPa	25400 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	6.04 GPa Metric	876 ksi English	2 mm/min* ISO 178 Comments
	6.97 GPa	1010 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.650 J/cm	1.22 ft-lb/in	ASTM D256
	0.450 J/cm @Temperature -30.0 °C	0.843 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Unnotched	4.00 J/cm	7.49 ft-lb/in	ASTM D4812
	3.95 J/cm @Temperature -30.0 °C	7.40 ft-lb/in @Temperature -22.0 °F	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ²	2.86 ft-lb/inÂ²	80*10*4; ISO 180/1A
	4.00 kJ/mÂ² @Temperature -30.0 °C	1.90 ft-lb/inÂ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/mÂ²	11.9 ft-lb/inÂ²	80*10*4; ISO 180/1U
	23.0 kJ/mÂ² @Temperature -30.0 °C	10.9 ft-lb/inÂ² @Temperature -22.0 °F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	0.600 J/cmÂ²	2.86 ft-lb/inÂ²	ISO 179/2C
	0.500 J/cmÂ² @Temperature -30.0 °C	2.38 ft-lb/inÂ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	2.70 J/cmÂ² @Temperature -30.0 °C	12.8 ft-lb/inÂ² @Temperature -22.0 °F	ISO 179/2C

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	16.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	70.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	38.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2

Thermal Properties Deflection Temperature at 0.46 MPa (105 psi)	Metric 132 Â°C	English 270 Â°F	Comments Edgew 120*10*4 sp=100mm; ISO 75/Ae
Deflection Temperature at 1.8 MPa (264 psi)	139 Â°C	282 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	135 Â°C @Thickness 3.20 mm	275 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	144 Â°C	291 Â°F	Rate B/120; ISO 306
	150 Â°C	302 Â°F	Rate A/50; ISO 306

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