

SABIC Innovative Plastics NORYL FE1410PW PPE+PS (Europe-Africa-Middle East)

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

Material Notes:

Noryl* FE1410PW resin is a blend of polyphenylene Oxide (PPO) and polystyrene (PS) resin that contains 10% glass reinforcement. The resin is suitable for injection molding. Noryl FE1410PW resin has been developed for fluid engineering applications that require improved hydrolytic stability. Noryl FE1410PW 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-FE1410PW-PPEPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 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 @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
Melt Index of Compound	32 g/10 min @Load 10.0 kg, Temperature 280 °C	32 g/10 min @Load 22.0 lb, Temperature 536 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	94.0 MPa	13600 psi	Type I, 5 mm/min; ASTM D638
	94.0 MPa	13600 psi	5 mm/min; ISO 527
Elongation at Break	2.7 %	2.7 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.77 GPa	692 ksi	5 mm/min; ASTM D638
	4.93 GPa	715 ksi	1 mm/min; ISO 527
Flexural Strength	135 MPa	19600 psi	1.3 mm/min, 50 mm span; ASTM D790
	135 MPa	19600 psi	2 mm/min; ISO 178
Flexural Modulus	4.86 GPa	705 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.88 GPa	708 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric /cm	English -lb/in	Comments
	0.350 J/cm @Temperature -30.0 °C	0.656 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Unnotched	2.30 J/cm	4.31 ft-lb/in	ASTM D4812
	2.25 J/cm @Temperature -30.0 °C	4.22 ft-lb/in @Temperature -22.0 °F	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
	4.00 kJ/m ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1U
	13.0 kJ/m ² @Temperature -30.0 °C	6.19 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	1.40 J/cm ²	6.66 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	1.40 J/cm ² @Temperature -30.0 °C	6.66 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/2C

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C @Temperature -40.0 - 40.0 °C	16.7 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	70.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.9 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	126 °C	259 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	127 °C @Thickness 3.20 mm	261 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	140 °C	284 °F	Rate B/120; ISO 306
	146 °C	295 °F	Rate A/50; ISO 306

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China