

SABIC Innovative Plastics NORYL GFN1410V PPE+PS (Europe-Africa-Middle East)

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

Material Notes:

Noryl* GFN1410V resin is a blend of polyphenylene ether (PPE) and polystyrene (PS) resin that contains 10 % glass reinforcement. The resin is suitable for injection molding. Noryl GFN1410V resin has been developed for fluid engineering applications that require improved hydrolytic stability. Noryl GFN1410V cust spec 1977 resin will be 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-GFN1410V-PPEPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	23 ^o C / 50% RH; ISO 62
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 Flow	9.0 g/10 min @Load 5.00 kg, Temperature 280 ^o C	9.0 g/10 min @Load 11.0 lb, Temperature 536 ^o F	ASTM D1238
Melt Index of Compound	20 g/10 min @Load 10.0 kg, Temperature 280 ^o C	20 g/10 min @Load 22.0 lb, Temperature 536 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	5 mm/min; ISO 527
	84.0 MPa	12200 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	80.0 MPa	11600 psi	5 mm/min; ISO 527
	84.0 MPa	12200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	3.4 %	3.4 %	5 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	4.20 GPa	609 ksi	1 mm/min; ISO 527
	4.40 GPa	638 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	131 MPa	19000 psi	2 mm/min; ISO 178
	144 MPa	20900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.00 GPa	580 ksi	2 mm/min; ISO 178
	4.20 GPa	609 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.840 J/cm	1.57 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.20 J/cm	7.87 ft-lb/in	ASTM D4812
	4.20 J/cm @Temperature -30.0 Â°C	7.87 ft-lb/in @Temperature -22.0 Â°F	ASTM D4812
Izod Impact, Unnotched (ISO)	26.0 kJ/mÂ²	12.4 ft-lb/inÂ²	80*10*4; ISO 180/1U
	26.0 kJ/mÂ² @Temperature -30.0 Â°C	12.4 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	2.80 J/cmÂ²	13.3 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	2.80 J/cmÂ² @Temperature -30.0 Â°C	13.3 ft-lb/inÂ² @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Dart Drop, Total Energy	17.0 J @Temperature 23.0 Â°C	12.5 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Âµm/m-Â°C	16.7 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	30.0 Âµm/m-Â°C	16.7 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	70.0 Âµm/m-Â°C @Temperature -40.0 -	38.9 Âµin/in-Â°F @Temperature -40.0 -	ASTM E 831

Thermal Properties	40.0 °C Metric	104 °F English	Comments
	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	130 °C	266 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	132 °C	270 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	135 °C	275 °F	Rate B/50; ASTM D1525
	135 °C	275 °F	Rate B/50; ISO 306
	142 °C	288 °F	Rate B/120; 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