SABIC Innovative Plastics Noryl GFN1430V PPE+PS (Europe-Africa-Middle East)

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

Material Notes:

Noryl* GFN1430V PolyPhenylene Oxide (PPO*) + Polystyrene (PS) resin is a 30 % Glass Reinforced, injection moldable grade with improved hydrolytic stability. This grade has been developed for potable water applications and brings potential faster cycle time and lower stress than other 30% glass reinforced Noryl* PPO/PS blends. Noryl* GFN1430V has been certified for potable water applications up to 85C in Europe and North America in limited colours.This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-GFN1430V-PPEPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D 792
Density	1.30 g/cc	0.0470 lb/in³	ISO 1183
Moisture Absorption at Equilibrium	0.060 %	0.060 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.20 % @Temperature 23.0 °C	0.20 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 3.20 mm	0.0010 - 0.0030 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	6.0 g/10 min @Load 5.00 kg, Temperature 280 °C	6.0 g/10 min @Load 11.0 lb, Temperature 536 °F	ASTM D 1238
	26 g/10 min @Load 10.0 kg, Temperature 300 °C	26 g/10 min @Load 22.0 lb, Temperature 572 °F	[cm^3/10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	5 mm/min; ISO 527
	115 MPa	16700 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	110 MPa	16000 psi	5 mm/min; ISO 527
	115 MPa	16700 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	2.2 %	2.2 %	5 mm/min; ISO 527
	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
Elongation at Yield	2.2 %	2.2 %	5 mm/min; ISO 527
	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	7.30 GPa	1060 ksi	1 mm/min; ISO 527
	8.00 GPa	1160 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	165 MPa	23900 psi	2 mm/min; ISO 178
	169 MPa	24500 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	7.10 GPa	1030 ksi	2 mm/min; ISO 178
	7.50 GPa	1090 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.850 J/cm @Temperature -30.0 °C	1.59 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	0.920 J/cm @Temperature 23.0 °C	1.72 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	5.20 J/cm @Temperature 23.0 °C	9.74 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
	5.20 J/cm @Temperature -30.0 °C	9.74 ft-lb/in @Temperature -22.0 °F	ASTM D 4812
Izod Impact, Unnotched (ISO)	25.0 kJ/m² @Temperature -30.0 °C	11.9 ft-lb/in² @Temperature -22.0 °F	80*10*4; ISO 180/1U
	30.0 kJ/m² @Temperature 23.0 °C	14.3 ft-lb/in² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	3.00 J/cm² @Temperature 23.0 °C	14.3 ft-lb/in² @Temperature 73.4 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Impact Test	16.0 J @Temperature 23.0 °C	11.8 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

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
	30.0 µm/m-°C	16.7 µin/in-°F	ASTM E 831

Thermal Properties	Metric	English	Comments
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
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
	70.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.9 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	140 °C @Thickness 3.20 mm	284 °F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	144 °C	291 °F	Rate B/50; ISO 306
	149 °C	300 °F	Rate B/50; ASTM D 1525
	150 °C	302 °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