

SABIC Innovative Plastics NORYL GTX GTX830 PPE+PS+PA (Asia Pacific)

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

Material Notes:

GR 30%. Highest stiffness of 1200000 psi (8200 MPa) flexural modulus. Excellent chemical and high heat resistance. Application: under the bonnet.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX830-PPEPSA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Density	1.328 g/cc	0.04798 lb/in ³	ASTM D792
Moisture Absorption	0.500 %	0.500 %	50% RH, 24 hrs; ASTM D570
Moisture Absorption at Equilibrium	1.0 %	1.0 %	50% RH; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm @Thickness 3.20 mm	0.0020 - 0.0030 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0065 - 0.0085 cm/cm @Thickness 3.20 mm	0.0065 - 0.0085 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength at Break	158 MPa	22900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	151 MPa	21900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	7.0 %	7.0 %	Type I, 5 mm/min; ASTM D638
Flexural Yield Strength	248 MPa	36000 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	8.58 GPa	1240 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
	0.800 J/cm @Temperature -30.0 °C	1.50 ft-lb/in @Temperature -22.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
	19.8 - 30.6 µm/m-°C	11.0 - 17.0 µin/in-°F	

CTE, linear, Parallel to Flow Thermal Properties	Metric @ Temperature -20.0 - 150 Â°C	English @ Temperature -4.00 - 302 Â°F	ASTM E 831 Comments
Deflection Temperature at 0.46 MPa (66 psi)	254 Â°C @Thickness 6.40 mm	489 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	240 Â°C @Thickness 6.40 mm	464 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	248 Â°C	478 Â°F	Rate B/50; ASTM D1525
UL RTI, Electrical	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical with Impact	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical without Impact	50.0 Â°C	122 Â°F	UL 746B
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	250 - 400 V	250 - 400 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	UL 746A

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