

SABIC Innovative Plastics NORYL GTX GTX830 PPE+PA (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Polyphenylene Ether/PPO

Material Notes:

NORYL GTX830 a 30% glass reinforced grade which offers an excellent combination of chemical/heat resistance in combination with stiffness.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX830-PPEPA-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Moisture Absorption	1.09 %	1.09 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	3.1 %	3.1 %	ISO 62
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	0.0080 - 0.010 cm/cm @Thickness 3.20 mm	0.0080 - 0.010 in/in @Thickness 0.126 in	SABIC Method
Melt Index of Compound	7.0 g/10 min @Load 5.00 kg, Temperature 280 ^o C	7.0 g/10 min @Load 11.0 lb, Temperature 536 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	110 MPa	16000 psi	ISO 2039-1
Tensile Strength at Break	110 MPa	16000 psi	5 mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	5 mm/min; ISO 527
Tensile Modulus	7.30 GPa	1060 ksi	1 mm/min; ISO 527
Flexural Strength	170 MPa	24700 psi	2 mm/min; ISO 178
Flexural Modulus	6.20 GPa	899 ksi	2 mm/min; ISO 178
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1U
	45.0 kJ/m ² @Temperature -30.0 ^o C	21.4 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1U
	6.00 J/cm ²	28.6 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO

Charpy Impact Unnotched Mechanical Properties	Metric	English	179/1eU Comments
	4.00 J/cm ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/2C
	0.700 J/cm ² @Temperature -20.0 °C	3.33 ft-lb/in ² @Temperature -4.00 °F	ISO 179/2C

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	11.1 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	80.0 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	44.4 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	ISO 11359-2
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ft ² - Å°F	ISO 8302
Vicat Softening Point	220 Å°C	428 Å°F	Rate B/50; ISO 306
	220 Å°C	428 Å°F	Rate B/120; ISO 306
UL RTI, Electrical	120 Å°C	248 Å°F	UL 746B
UL RTI, Mechanical with Impact	90.0 Å°C	194 Å°F	UL 746B
UL RTI, Mechanical without Impact	125 Å°C	257 Å°F	UL 746B
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	UL 94
Oxygen Index	29 %	29 %	ISO 4589

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Å°C +/- 2Å°C	PASSES	IEC 60695-10-2

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