

## SABIC Innovative Plastics NORYL GTX GTX673 PPE+PA

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

### Material Notes:

Conductive Noryl GTX+ resin designed for profile extrusion. This grade can be electrostatic or powder coat painted without the need for a primer. In addition, its high heat capability allows it to be painted on the same line as metal.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-GTX-GTX673-PPEPA.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX673-PPEPA.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.400 %	0.400 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	4.0 %	4.0 %	ISO 62
Linear Mold Shrinkage, Flow	0.013 - 0.015 cm/cm @Thickness 3.20 mm	0.013 - 0.015 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	7.8 g/10 min @Load 5.00 kg, Temperature 300 <sup>o</sup> C	7.8 g/10 min @Load 11.0 lb, Temperature 572 <sup>o</sup> F	ASTM D1238
Melt Index of Compound	7.0 g/10 min @Load 5.00 kg, Temperature 300 <sup>o</sup> C	7.0 g/10 min @Load 11.0 lb, Temperature 572 <sup>o</sup> F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	63.0 MPa	9140 psi	Type I, 50 mm/min; ASTM D638
	64.0 MPa	9280 psi	50 mm/min; ISO 527
Tensile Strength, Yield	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D638
	66.0 MPa	9570 psi	50 mm/min; ISO 527
Elongation at Break	6.1 %	6.1 %	Type I, 50 mm/min; ASTM D638
	7.1 %	7.1 %	50 mm/min; ISO 527
Elongation at Yield	3.8 %	3.8 %	Type I, 50 mm/min; ASTM D638
	4.0 %	4.0 %	50 mm/min; ISO 527
Tensile Modulus	2.42 GPa	351 ksi	5 mm/min; ASTM D638

Mechanical Properties	2.67 GPa Metric	387 ksi English	1 mm/min; ISO 527 Comments
Flexural Yield Strength	100 MPa	14500 psi	1.3 mm/min, 50 mm span; ASTM D790
	103 MPa	14900 psi	2 mm/min; ISO 178
Flexural Modulus	2.47 GPa	358 ksi	2 mm/min; ISO 178
	2.52 GPa	365 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
	0.580 J/cm @Temperature -30.0 Â°C	1.09 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	80*10*4; ISO 180/1A
	6.00 kJ/mÂ² @Temperature -30.0 Â°C	2.86 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	5.00 J	3.69 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	76.0 Âµm/m-Â°C	42.2 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	81.0 Âµm/m-Â°C	45.0 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
CTE, linear, Transverse to Flow	78.0 Âµm/m-Â°C	43.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	86.0 Âµm/m-Â°C	47.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	184 Â°C	363 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	187 Â°C	369 Â°F	unannealed; ASTM D648

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Vicat Softening Point	197 Å°C	387 Å°F	Rate B/50; ASTM D1525
	197 Å°C	387 Å°F	Rate B/50; ISO 306
	198 Å°C	388 Å°F	Rate B/120; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 - 10000 ohm-cm	1000 - 10000 ohm-cm	SABIC Method

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

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