

SABIC Innovative Plastics NORYL GTX GTX934 PPE+PA

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

Material Notes:

NORYL GTX934 is an unfilled GTX grade with improved processability and heat ageing performance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX934-PPEPA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183
Moisture Absorption	1.21 %	1.21 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	3.5 %	3.5 %	ISO 62
Linear Mold Shrinkage, Flow	0.016 - 0.020 cm/cm	0.016 - 0.020 in/in	on Tensile Bar; SABIC Method
	0.014 - 0.017 cm/cm	0.014 - 0.017 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.011 - 0.014 cm/cm	0.011 - 0.014 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	13 g/10 min	13 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 280 ^o C	@Load 11.0 lb, Temperature 536 ^o F	
Melt Index of Compound	13 g/10 min	13 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 280 ^o C	@Load 11.0 lb, Temperature 536 ^o F	

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	85.0 MPa	12300 psi	ISO 2039-1
Tensile Strength at Break	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D638
	55.0 MPa	7980 psi	50 mm/min; ISO 527
Tensile Strength, Yield	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D638
	65.0 MPa	9430 psi	50 mm/min; ISO 527
Elongation at Break	25 %	25 %	50 mm/min; ISO 527
	60 %	60 %	Type I, 50 mm/min; ASTM D638

Elongation at Yield Mechanical Properties	4.5 % Metric	4.5 % English	50 mm/min; ISO 527 Comments
	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	50 mm/min; ASTM D638
	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Yield Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
	95.0 MPa	13800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ISO 178
	2.35 GPa	341 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.20 J/cm	4.12 ft-lb/in	ASTM D256
	1.00 J/cm	1.87 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	20.0 kJ/mÂ²	9.52 ft-lb/inÂ²	80*10*4; ISO 180/1A
	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Dart Drop, Total Energy	60.0 J	44.3 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.0 Âµm/m-Â°C	41.7 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	80.0 Âµm/m-Â°C	44.4 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	70.0 Âµm/m-Â°C	38.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 -	@Temperature 73.4 -	

Thermal Properties	60.0 °C Metric	140 °F English	Comments
	85.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	47.2 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ftÅ²- Å°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	190 Å°C	374 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	190 Å°C @Thickness 3.20 mm	374 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	200 Å°C	392 Å°F	Rate B/50; ISO 306
	205 Å°C	401 Å°F	Rate B/120; ISO 306
	205 Å°C	401 Å°F	Rate B/50; ASTM D1525
	250 Å°C	482 Å°F	Rate A/50; ISO 306

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

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