

SABIC Innovative Plastics NORYL GTX GTX924 PPE+PA (Europe-Africa-Middle East)

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

Material Notes:

NORYL GTX 924 is an UV stabilized unfilled Noryl GTX grade with improved processability. Noryl GTX 924 is specially designed for wheeltrim applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX924-PPEPA-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Moisture Absorption	1.00 %	1.00 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	3.5 %	3.5 %	ISO 62
Linear Mold Shrinkage, Flow	0.012 - 0.016 cm/cm	0.012 - 0.016 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	13 g/10 min @Load 5.00 kg, Temperature 280 ^o C	13 g/10 min @Load 11.0 lb, Temperature 536 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	50 mm/min; ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	50 mm/min; ISO 527
Elongation at Break	9.0 %	9.0 %	50 mm/min; ISO 527
Elongation at Yield	8.0 %	8.0 %	50 mm/min; ISO 527
Tensile Modulus	2.20 GPa	319 ksi	1 mm/min; ISO 527
Flexural Yield Strength	65.0 MPa	9430 psi	2 mm/min; ISO 178
Flexural Modulus	2.00 GPa	290 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
	6.00 kJ/m ² @Temperature -30.0 ^o C	2.86 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
	6.00 kJ/m ² @Temperature -40.0 ^o C	2.86 ft-lb/in ² @Temperature -40.0 ^o F	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
	9.00 kJ/m ^Å ²	4.28 ft-lb/in ^Å ²	80*10*4; ISO 180/1A
	@Temperature -20.0 Å°C	@Temperature -4.00 Å°F	
	11.0 kJ/m ^Å ²	5.23 ft-lb/in ^Å ²	80*10*4; ISO 180/1A
	@Temperature 0.000 Å°C	@Temperature 32.0 Å°F	
Charpy Impact, Notched	1.10 J/cm ^Å ²	5.23 ft-lb/in ^Å ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft ^Å ² -Å°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	160 Å°C	320 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Vicat Softening Point	190 Å°C	374 Å°F	Rate B/50; ISO 306
	195 Å°C	383 Å°F	Rate B/120; ISO 306
	240 Å°C	464 Å°F	Rate A/50; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.30e+13 ohm-cm	3.30e+13 ohm-cm	IEC 60093
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	18.5 kV/mm	470 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.026	0.026	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60230
Comparative Tracking Index	350 V	350 V	IEC 60112

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

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