

SABIC Innovative Plastics Noryl GTX VP7133 PPE+PA (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyester, TP , Polyphenylene Ether/PPO

Material Notes:

Noryl GTX VP7133 is an unfilled extrusion grade which offers high heat resistance in combination with high meltstrength. The material is especially designed for thermal break profiles which are used in aluminium windows and door assemblies. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-GTX-VP7133-PPEPA-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.2 %	1.2 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	3.5 % @Temperature 23.0 ^o C	3.5 % @Temperature 73.4 ^o F	ISO 62
Linear Mold Shrinkage, Flow	0.012 - 0.020 cm/cm	0.012 - 0.020 in/in	on tensile bar; SABIC Method
Melt Flow	6.0 g/10 min @Load 10.0 kg, Temperature 280 ^o C	6.0 g/10 min @Load 22.0 lb, Temperature 536 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	50 mm/min; ISO 527
Tensile Strength, Yield	75.0 MPa	10900 psi	50 mm/min; ISO 527
Elongation at Break	20 %	20 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.60 GPa	377 ksi	1 mm/min; ISO 527
Flexural Yield Strength	100 MPa	14500 psi	2 mm/min; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature 23.0 ^o C	2.86 ft-lb/in ² @Temperature 73.4 ^o F	80*10*4; ISO 180/1A
	6.00 kJ/m ² @Temperature -30.0	2.86 ft-lb/in ² @Temperature -22.0	80*10*4; ISO 180/1A

Mechanical Properties	°C Metric	°F English	Comments
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	NB	NB	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.500 J/cm ²	2.38 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft ² - °F	ASTM E 1530
Deflection Temperature at 0.46 MPa (66 psi)	195 °C	383 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
Vicat Softening Point	210 °C	410 °F	Rate B/50; ISO 306
	215 °C	419 °F	Rate B/120; ISO 306

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

Descriptive Properties	Value	Comments
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