

SABIC Innovative Plastics LNP Verton RV006ESV_GY7E071 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Mineral Filled

Material Notes:

Preliminary Data for 30% long glass fiber, single pellet color gray, PA66 This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Verton-RV006ESVGY7E071-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
	1.389 g/cc	0.05018 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	1.2 %	1.2 %	23°C / 50% RH; ISO 62
	0.66 %	0.66 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0029 - 0.0049 cm/cm	0.0029 - 0.0049 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	161 MPa	23400 psi	Type I, 5 mm/min; ASTM D 638
	163 MPa	23600 psi	5 mm/min; ISO 527
Tensile Strength, Yield	162 MPa	23500 psi	Type I, 5 mm/min; ASTM D 638
	163 MPa	23600 psi	5 mm/min; ISO 527
Elongation at Break	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D 638
	2.3 %	2.3 %	5 mm/min; ISO 527
Elongation at Yield	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D 638
	2.3 %	2.3 %	5 mm/min; ISO 527
Tensile Modulus	8.32 GPa	1210 ksi	1 mm/min; ISO 527
	9.11 GPa	1320 ksi	50 mm/min; ASTM D 638
Flexural Strength	228 MPa	33100 psi	2 mm/min; ISO 178
	234 MPa	33900 psi	1.3 mm/min, 50 mm span; ASTM D

Mechanical Properties	Metric	English	790 Comments
Flexural Modulus	7.75 GPa	1120 ksi	2 mm/min; ISO 178
	8.65 GPa	1250 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.520 J/cm	0.974 ft-lb/in	ASTM D 256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.570 J/cm	1.07 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	9.38 J/cm	17.6 ft-lb/in	ASTM D 4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	13.0 kJ/m²	6.19 ft-lb/in²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	14.0 kJ/m²	6.66 ft-lb/in²	80*10*4; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Unnotched (ISO)	52.0 kJ/m²	24.7 ft-lb/in²	80*10*4; ISO 180/1U
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	158 kJ/m²	75.2 ft-lb/in²	80*10*4; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D 3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	12.0 J	8.85 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	33.7 µm/m-°C	18.7 µin/in-°F	ASTM E 831
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Transverse to Flow	63.5 µm/m-°C	35.3 µin/in-°F	ASTM E 831
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	261 °C	502 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	260 °C	500 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	256 °C	493 °F	Flatw 80×10×4 sp=64mm; ISO 75/A1
	256 °C	493 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China