

SABIC Innovative Plastics LNP Verton NV0061EV_GY7E148 PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

Material Notes:

Preliminary data for 30% long fiber single pellet non-halogen FR color filled PC/ABSThis 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-NV0061EVGY7E148-PCABS.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
	1.453 g/cc	0.05249 lb/in ³	ASTM D 792
Water Absorption	0.090 %	0.090 %	ISO 62-1
	@Temperature 23.0 Å°C, Time 86400 sec	@Temperature 73.4 Å°F, Time 24.0 hour	
	0.088 %	0.088 %	ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.00080 - 0.0028 cm/cm	0.00080 - 0.0028 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0034 - 0.0054 cm/cm	0.0034 - 0.0054 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	94.0 MPa	13600 psi	5 mm/min; ISO 527
	112 MPa	16200 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	94.0 MPa	13600 psi	5 mm/min; ISO 527
	112 MPa	16200 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	1.1 %	1.1 %	5 mm/min; ISO 527
	1.3 %	1.3 %	Type I, 5 mm/min; ASTM D 638
	1.6 %	1.6 %	Flexural Strain, 2 mm/min; ISO 178
Elongation at Yield	1.1 %	1.1 %	5 mm/min; ISO 527
	1.3 %	1.3 %	Type I, 5 mm/min; ASTM D 638

Tensile Modulus Mechanical Properties	9.06 GPa Metric	1310 ksi English	1 mm/min* ISO 527 Comments
	9.76 GPa	1420 ksi	50 mm/min; ASTM D 638
Flexural Strength	142 MPa	20600 psi	1.3 mm/min, 50 mm span; ASTM D 790
	143 MPa	20700 psi	2 mm/min; ISO 178
Flexural Yield Strength	142 MPa	20600 psi	1.3 mm/min, 50 mm span; ASTM D 790
	143 MPa	20700 psi	2 mm/min; ISO 178
Flexural Modulus	8.91 GPa	1290 ksi	2 mm/min; ISO 178
	10.2 GPa	1480 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	1.84 J/cm @Temperature -40.0 Â°C	3.45 ft-lb/in @Temperature -40.0 Â°F	ASTM D 256
	2.38 J/cm @Temperature 23.0 Â°C	4.46 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	3.29 J/cm @Temperature 23.0 Â°C	6.16 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
	3.74 J/cm @Temperature -40.0 Â°C	7.01 ft-lb/in @Temperature -40.0 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	21.0 kJ/mÂ² @Temperature 23.0 Â°C	9.99 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
	21.0 kJ/mÂ² @Temperature -40.0 Â°C	9.99 ft-lb/inÂ² @Temperature -40.0 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/mÂ² @Temperature -40.0 Â°C	12.4 ft-lb/inÂ² @Temperature -40.0 Â°F	80*10*4; ISO 180/1U
	27.0 kJ/mÂ² @Temperature 23.0 Â°C	12.8 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	10.0 J @Temperature 23.0	7.38 ft-lb	Instrumented Impact Total Energy; ASTM D 3763

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.8 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -40.0 - 40.0 $^\circ\text{C}$	15.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -40.0 - 104 $^\circ\text{F}$	ASTM E 831
CTE, linear, Transverse to Flow	66.8 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -40.0 - 40.0 $^\circ\text{C}$	37.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -40.0 - 104 $^\circ\text{F}$	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	87.0 $^\circ\text{C}$	189 $^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	85.0 $^\circ\text{C}$ @Thickness 3.20 mm	185 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D 648
Flammability, UL94	V-0 @Thickness 1.50 - 1.60 mm	V-0 @Thickness 0.0591 - 0.0630 in	UL 94

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