

SABIC Innovative Plastics LNP Stat-kon WEF42 PET/PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polyethylene Terephthalate (PET)

Material Notes:

LNP Stat-Kon WCF-1006 is a compound based on PET/PBT resin containing carbon and glass fiber reinforcements. 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-Stat-kon-WEF42-PETPBT.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
	1.51 g/cc	0.0546 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.070 %	0.070 %	23 ^o C / 50% RH; ISO 62
	0.050 %	0.050 %	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	136 MPa	19700 psi	Type I, 5 mm/min; ASTM D 638
	141 MPa	20500 psi	5 mm/min; ISO 527
Tensile Strength, Yield	136 MPa	19700 psi	Type I, 5 mm/min; ASTM D 638
	141 MPa	20500 psi	5 mm/min; ISO 527
Elongation at Break	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D 638
	1.8 %	1.8 %	5 mm/min; ISO 527
	211 %	211 %	Flexural Strain, 2 mm/min; ISO 178
Elongation at Yield	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D 638
	1.8 %	1.8 %	5 mm/min; ISO 527
Tensile Modulus	13.96 GPa	2025 ksi	1 mm/min; ISO 527
	18.6 GPa	2700 ksi	50 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	211 MPa	30600 psi	2 mm/min; ISO 178
Flexural Modulus	11.5 GPa	1670 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	11.62 GPa	1685 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.680 J/cm @Temperature 23.0 Â°C	1.27 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	6.12 J/cm @Temperature 23.0 Â°C	11.5 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	37.0 kJ/mÂ² @Temperature 23.0 Â°C	17.6 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	223 Â°C	433 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	223 Â°C @Thickness 3.20 mm	433 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	227 Â°C	441 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	209 Â°C @Thickness 3.20 mm	408 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Surface Resistance	2.0 - 4.0 ohm	2.0 - 4.0 ohm	ASTM D 257

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