

SABIC Innovative Plastics LNP THERMOCOMP 9X10312 PA (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon

Material Notes:

9X10312 is 50% glass fiber reinforced, impact modified nylon material. High modulus, high flow and good ductility, Low Moisture Absorption.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-9X10312-PA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 g/cc	ASTM D792
Moisture Absorption	0.150 %	0.150 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.80 %	0.80 %	ISO 62
Linear Mold Shrinkage, Flow	0.0012 cm/cm @Thickness 3.20 mm	0.0012 in/in @Thickness 0.126 in	SABIC Method
Melt Index of Compound	15 g/10 min @Load 2.16 kg, Temperature 300 Â°C	15 g/10 min @Load 4.76 lb, Temperature 572 Â°F	MVR [cm^3/10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	212 MPa	30700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	15.0 GPa	2180 ksi	5 mm/min; ASTM D638
Flexural Strength	310 MPa	45000 psi	ASTM D790
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790
Izod Impact, Notched	1.50 J/cm	2.81 ft-lb/in	ASTM D256
Charpy Impact, Notched	1.60 J/cmÂ²	7.61 ft-lb/inÂ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	12.0 J @Temperature 23.0 Â°C	8.85 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	250 Â°C @Thickness 3.20 mm	482 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.0	4.0	ASTM ES 7-83
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
Dissipation Factor	0.010	0.010	ASTM ES 7-83
	@Frequency 1.10e+9 Hz	@Frequency 1.10e+9 Hz	

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