

SABIC Innovative Plastics LNP THERMOCOMP DF00A8P PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* DF00A8P is a compound based on Polycarbonate resin containing Glass Fiber, Flame Retardant. Added features of this material include: High modulus, good flatness, good impact performance, Non-Brominated & Non-Chlorinated Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF00A8P-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.635 g/cc	0.05907 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.00050 - 0.0020 cm/cm @Time 86400 sec	0.00050 - 0.0020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.00050 - 0.0020 cm/cm @Time 86400 sec	0.00050 - 0.0020 in/in @Time 24.0 hour	ASTM D955
Melt Index of Compound	28 g/10 min @Load 5.00 kg, Temperature 300 Â°C	28 g/10 min @Load 11.0 lb, Temperature 572 Â°F	MVR [cm ³ /10 min]; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	153 MPa	22200 psi	5 mm/min; ISO 527
	154 MPa	22300 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.9 %	1.9 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	15.13 GPa	2194 ksi	1 mm/min; ISO 527
	15.32 GPa	2222 ksi	5 mm/min; ASTM D638
Flexural Strength	223 MPa	32300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	14.87 GPa	2157 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.27 J/cm	2.38 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.20 J/cm	9.74 ft-lb/in	ASTM D4812
Charpy Impact Unnotched	3.80 J/cm ²	18.1 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Dart Drop, Total Energy	21.0 J	15.5 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	107 Â°C @Thickness 3.20 mm	225 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.00 mm	V-0 @Thickness 0.0394 in	UL 94

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