

SABIC Innovative Plastics LNP THERMOCOMP D452 PC COPOLYMER (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* D452 (or EXTC8202) is a compound based on SABIC unique Polycarbonate copolymer resin containing Glass Fiber, Flame Retardant. Added features of this material include: High modulus, good flatness, good ductility, Non-Brominated & Non-Chlorinated Flame Retardant, and super good flow with IMR/IMD capability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-D452-PC-COPOLYMER-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0025 cm/cm	0.0010 - 0.0025 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0010 - 0.0025 cm/cm	0.0010 - 0.0025 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	17.4 g/10 min	17.4 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 Â°C	@Load 2.65 lb, Temperature 572 Â°F	
	39 g/10 min	39 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 300 Â°C	@Load 4.76 lb, Temperature 572 Â°F	
Melt Index of Compound	12 g/10 min	12 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 1.20 kg, Temperature 300 Â°C	@Load 2.65 lb, Temperature 572 Â°F	
	30 g/10 min	30 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 300 Â°C	@Load 4.76 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	5 mm/min; ISO 527
	141 MPa	20500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.2 %	2.2 %	5 mm/min; ISO 527
	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.29 GPa	1637 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	MPa	psi	2 mm/min, ASTM D638
Flexural Strength	211 MPa	30600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	189 MPa	27400 psi	2 mm/min; ISO 178
Flexural Modulus	10.05 GPa	1458 ksi	2 mm/min; ISO 178
	11.66 GPa	1691 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.45 J/cm	2.72 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.20 J/cm	11.6 ft-lb/in	ASTM D4812
Charpy Impact Unnotched	4.10 J/cm ²	19.5 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
	µm/m-°C	µin/in-°F	
CTE, linear, Parallel to Flow	15.8 µm/m-°C @Temperature 23.0 - 80.0 °C	8.78 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-2
CTE, linear, Transverse to Flow	58.0 µm/m-°C @Temperature 23.0 - 80.0 °C	32.2 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C @Thickness 3.20 mm	208 °F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.00 mm	V-0 @Thickness 0.0394 in	UL 94

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