

SABIC Innovative Plastics LNP THERMOCOMP DF004RXP PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* DF004RXP is a compound based on Polycarbonate resin containing 20% Glass Fiber. Some light color grades may have lower impact data than natural and black. Added features include: Mold Release, UL

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF004RXP-PC.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
	1.352 g/cc	0.04884 lb/in ³	ASTM D792
Water Absorption	0.17 %	0.17 %	ISO 62-1
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	102 MPa	14800 psi	Type I, 5 mm/min; ASTM D638
	103 MPa	14900 psi	5 mm/min; ISO 527
Tensile Strength, Yield	105 MPa	15200 psi	Type I, 5 mm/min; ASTM D638
	105 MPa	15200 psi	5 mm/min; ISO 527
Elongation at Break	3.2 %	3.2 %	Type I, 5 mm/min; ASTM D638
	3.3 %	3.3 %	5 mm/min; ISO 527
	3.7 %	3.7 %	Flexural Strain, break, 2 mm/min; ISO 178
Elongation at Yield	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	5.72 GPa	830 ksi	1 mm/min; ISO 527
	6.10 GPa	885 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	169 MPa	24500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	163 MPa	23600 psi	2 mm/min; ISO 178
	173 MPa	25100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.88 GPa	853 ksi	2 mm/min; ISO 178
	6.07 GPa	880 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.980 J/cm	1.84 ft-lb/in	Light & White Colors; ASTM D256
	1.25 J/cm	2.34 ft-lb/in	ASTM D256
	1.25 J/cm	2.34 ft-lb/in	Natural & Black Colors; ASTM D256
Izod Impact, Unnotched	8.95 J/cm	16.8 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	53.0 kJ/m ²	25.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	24.0 J	17.7 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	28.9 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	16.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	53.9 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	29.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	140 Â°C	284 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	141 Â°C @Thickness 3.20 mm	286 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	HB @Thickness 0.750 - 3.00 mm	HB @Thickness 0.0295 - 0.118 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