

SABIC Innovative Plastics LNP THERMOCOMP 9X10401H ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* THERMOCOMP* 9X10401H is a compound based on Polyphenylsulfone containing proprietary filler(s). Added feature of this grade is: X-Ray Opaque.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-9X10401H-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
Moisture Absorption	0.260 %	0.260 %	50% RH, 24 hrs; ASTM D570
	0.470 %	0.470 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	57.0 MPa	8270 psi	Type I, 5 mm/min; ASTM D638
	57.0 MPa	8270 psi	5 mm/min; ISO 527
Tensile Strength, Yield	71.0 MPa	10300 psi	5 mm/min; ISO 527
	72.0 MPa	10400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	12 %	12 %	Type I, 5 mm/min; ASTM D638
	12 %	12 %	5 mm/min; ISO 527
Elongation at Yield	7.0 %	7.0 %	Type I, 5 mm/min; ASTM D638
	7.0 %	7.0 %	5 mm/min; ISO 527
Tensile Modulus	2.55 GPa	370 ksi	1 mm/min; ISO 527
	2.66 GPa	386 ksi	5 mm/min; ASTM D638
Flexural Modulus	2.57 GPa	373 ksi	2 mm/min; ISO 178
	2.72 GPa	395 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties <i>Izod Impact, Notched</i>	Metric <i>U 800 J/cm</i>	English <i>U 800 ft-lb/in</i>	Comments <i>ASTM D256</i>
Izod Impact, Unnotched	16.4 J/cm	30.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	175 kJ/m ²	83.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	34.0 J @Temperature 23.0 Â°C	25.1 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	29.0 J	21.4 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	53.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	29.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	53.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	29.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	213 Â°C	415 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	214 Â°C @Thickness 3.20 mm	417 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	203 Â°C @Thickness 3.20 mm	397 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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