

SABIC Innovative Plastics LNP THERMOCOMP AH0400A ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* THERMOCOMP* AH0400A is a compound based on ABS resin. Added feature of this material is: High Specific Gravity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-AH0400A-ABS.php

Physical Properties	Metric	English	Comments
Density	3.99 g/cc	0.144 lb/in ³	ISO 1183
	4.00 g/cc	0.145 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0035 cm/cm	0.0035 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	43.0 MPa	6240 psi	ISO 527
Tensile Strength, Yield	43.0 MPa	6240 psi	ISO 527
Elongation at Break	0.60 %	0.60 %	ISO 527
Elongation at Yield	0.60 %	0.60 %	ISO 527
Tensile Modulus	11.23 GPa	1629 ksi	1 mm/min; ISO 527
Flexural Strength	62.0 MPa	8990 psi	ASTM D790
	66.0 MPa	9570 psi	ISO 178
Flexural Modulus	11.72 GPa	1700 ksi	ASTM D790
	12.0 GPa	1740 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.850 J/cm	1.59 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	6.00 kJ/m ^Å ²	2.86 ft-lb/in ^Å ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.2 Åµm/m-Å°C	19.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	35.0 Åµm/m-Å°C	19.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	32.0 Åµm/m-Å°C	17.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	32.4 Åµm/m-Å°C	18.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	102 Å°C	216 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	98.0 Å°C	208 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	97.0 Å°C	207 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	93.0 Å°C	199 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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