

SABIC Innovative Plastics LNP THERMOCOMP AH0230A ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP THERMOCOMP* AH0230A 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-AH0230A-ABS.php

Physical Properties	Metric	English	Comments
Density	2.30 g/cc	0.0831 lb/in ³	ASTM D792
	2.30 g/cc	0.0831 lb/in ³	ISO 1183
Moisture Absorption	0.160 %	0.160 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.0 MPa	2180 psi	ASTM D638
	18.0 MPa	2610 psi	ISO 527
Elongation at Break	0.90 %	0.90 %	ISO 527
	1.4 %	1.4 %	ASTM D638
Tensile Modulus	5.73 GPa	831 ksi	50 mm/min; ASTM D638
	5.89 GPa	854 ksi	1 mm/min; ISO 527
Flexural Strength	34.0 MPa	4930 psi	ASTM D790
	42.0 MPa	6090 psi	ISO 178
Flexural Modulus	5.51 GPa	799 ksi	ASTM D790
	5.54 GPa	804 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	0.900 J/cm	1.69 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.4 Åµm/m-Å°C	28.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	50.8 Åµm/m-Å°C	28.2 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	52.1 Åµm/m-Å°C	28.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	68.4 Åµm/m-Å°C	38.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	87.0 Å°C	189 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	85.0 Å°C	185 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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