

SABIC Innovative Plastics LNP THERMOCOMP AX06437 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* THERMOCOMP* AX06437 is a compound based on ABS resin containing Proprietary Filler(s). Added feature of this grade is: Platable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-AX06437-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	color; ASTM D792
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
	1.175 g/cc	0.04245 lb/in ³	ASTM D792
Moisture Absorption	0.220 %	0.220 %	50% RH, 24 hrs; ASTM D570
	0.320 %	0.320 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	33.0 MPa	4790 psi	ISO 527
	34.0 MPa	4930 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	36.0 MPa	5220 psi	ISO 527
	37.0 MPa	5370 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	6.9 %	6.9 %	Type I, 5 mm/min; ASTM D638
	7.5 %	7.5 %	ISO 527
Elongation at Yield	64.1 %	64.1 %	Flexural Strain, break, 2 mm/min; ISO 178
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.9 %	1.9 %	ISO 527
	3.18 GPa	461 ksi	5 mm/min; ASTM D638
Flexural Strength	64.0 MPa	9280 psi	ISO 178

Mechanical Properties	92.0 MPa Metric	13300 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Flexural Modulus	3.01 GPa	437 ksi	ISO 178
	3.06 GPa	444 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.260 J/cm	0.487 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.88 J/cm	5.40 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*3; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/m ²	10.5 ft-lb/in ²	80*10*3; ISO 180/1U
	22.0 kJ/m ²	10.5 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	84.4 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	46.9 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM E 831
CTE, linear, Transverse to Flow	91.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	50.6 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	87.0 $\text{Å}^\circ\text{C}$	189 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	86.0 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	187 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.75 @Frequency 1.00e+9 Hz	2.75 @Frequency 1.00e+9 Hz	ASTM D150
Dissipation Factor	0.0024 @Frequency 1.00e+9 Hz	0.0024 @Frequency 1.00e+9 Hz	ASTM D150

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