

LNP* Thermocomp* Compound AX06437

Americas: COMMERCIAL

Also known as: AX06437

Product Reorder Name: AX06437

LNP* Thermocomp* AX06437 is a compound based on Acrylonitrile Butadiene Styrene resin containing Mineral.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, yield	37	MPa	ASTM D 638
Tensile Stress, break	35	MPa	ASTM D 638
Tensile Stress, yld, Type I, 5 mm/min	37	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	34	MPa	ASTM D 638
Tensile Strain, yield	1.8	%	ASTM D 638
Tensile Strain, break	6	%	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	6.9	%	ASTM D 638
Tensile Modulus, 5 mm/min	3180	MPa	ASTM D 638
Flexural Stress	68	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	92	MPa	ASTM D 790
Flexural Modulus	3270	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	3060	MPa	ASTM D 790
Tensile Stress, yield	36	MPa	ISO 527
Tensile Stress, break	33	MPa	ISO 527
Tensile Strain, break	7.5	%	ISO 527
Flexural Stress	64	MPa	ISO 178
Flexural Strain, break, 2 mm/min	64.1	%	ISO 178
Flexural Modulus	3010	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	288	J/m	ASTM D 4812
Izod Impact, notched, 23°C	26	J/m	ASTM D 256
Izod Impact, notched 80*10*3 +23°C	3	kJ/m ²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	22	kJ/m ²	ISO 180/1U
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	86	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	87	°C	ISO 75/Af
PHYSICAL			
Specific Gravity, color	1.17	-	ASTM D 792
Density	1.175	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.22	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.6	%	ASTM D 955
Density	1.17	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.32	%	ISO 62
ELECTRICAL			
Relative Permittivity, 1 GHz	2.75	-	ASTM D 150

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05 - 0.1	%
Melt Temperature	260	°C
Front - Zone 3 Temperature	265 - 275	°C
Middle - Zone 2 Temperature	230 - 245	°C
Rear - Zone 1 Temperature	205 - 215	°C
Mold Temperature	70 - 80	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:01/04/2008

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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