



LNP™ THERMOCOMP™ Compound AX06437

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound AX06437

Product reorder name: AX06437

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

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	380	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	340	kgf/cm ²	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	32500	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	930	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	31200	kgf/cm ²	ASTM D 790
Tensile Stress, yield	36	MPa	ISO 527
Tensile Stress, break	33	MPa	ISO 527
Tensile Strain, yield	1.9	%	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	29	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*3 +23°C	22	kJ/m ²	ISO 180/1U
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
CTE, -30°C to 30°C, flow	8.44E-05	1/°C	ASTM E 831





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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -30°C to 30°C, xflow	9.1E-05	1/°C	ASTM E 831
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 (5)	0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	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
Dissipation Factor, 1 GHz	0.0024	-	ASTM D 150





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PROCESSING PARAMETERS	TYPICAL 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

