

LNP™ THERMOCOMP™ AX06437 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

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

Also known as: LNP* THERMOCOMP* Compound AX06437

Product reorder name: AX06437

General Information			
Filler / Reinforcement	Proprietary		
Features	Platable		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.50	%	
Across Flow : 24 hr	0.60	%	
Water Absorption			
24 hr, 50% RH	0.22	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.32	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3190	MPa	ASTM D638
Tensile Strength			
Yield ²	37.5	MPa	ASTM D638
Yield	36.9	MPa	ISO 527-2
Break ³	34.1	MPa	ASTM D638
Break	33.8	MPa	ISO 527-2
Tensile Elongation			
Yield ⁴	1.8	%	ASTM D638
Yield	1.9	%	ISO 527-2
Break ⁵	6.9	%	ASTM D638
Break	7.5	%	ISO 527-2
Flexural Modulus			
50.0 mm Span ⁶	3060	MPa	ASTM D790
--	3010	MPa	ISO 178
Flexural Stress			
--	64.1	MPa	ISO 178
Break, 50.0 mm Span ⁷	92.2	MPa	ASTM D790
Flexural Strain at Break ⁸	64	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	27	J/m	ASTM D256
23°C ⁹	3.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	290	J/m	ASTM D4812
23°C ¹⁰	22	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	86.7	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	87.5	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -30 to 30°C	8.4E-5	cm/cm/°C	
Transverse : -30 to 30°C	9.1E-5	cm/cm/°C	
Electrical	Nominal Value		Test Method
Dielectric Constant (1.00 GHz)	2.75		ASTM D150
Dissipation Factor (1.00 GHz)	2.4E-3		ASTM D150
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 to 0.10	%	
Rear Temperature	204 to 216	°C	
Middle Temperature	232 to 243	°C	
Front Temperature	266 to 277	°C	
Processing (Melt) Temp	260	°C	
Mold Temperature	71.1 to 82.2	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	1.3 mm/min		
8.	2 mm/min		
9.	80*10*3		
10.	80*10*4		
11.	80*10*4 mm		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

