

LNP™ THERMOCOMP™ AF006 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP AF006 is a compound based on Acrylonitrile Butadiene Styrene resin containing Glass Fiber.

General Information			
Filler / Reinforcement	Glass Fiber		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.12	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7900	MPa	ISO 527-2/1
Tensile Stress (Break)	82.0	MPa	ISO 527-2/5
Tensile Strain (Break)	1.4	%	ISO 527-2/5
Flexural Modulus ¹	6300	MPa	ISO 178
Flexural Stress	103	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	20	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 64.0 mm Span	104	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	98.0	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.3E-5	cm/cm/°C	
Transverse : 23 to 60°C	6.5E-5	cm/cm/°C	
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.	2.0 mm/min
2.	80*10*4
3.	80*10*4
4.	80*10*4 mm

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