

LNP™ THERMOCOMP™ AW00A compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP AW00A is a compound based on Acrylonitrile Butadiene Styrene resin containing Wollastonite.

General Information			
Filler / Reinforcement	Wollastonite (CaSiO ₃)		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.50	%	Internal Method
Water Absorption (23°C, 24 hr)	0.24	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2/1
Tensile Stress (Yield)	25.0	MPa	ISO 527-2/5
Tensile Strain (Yield)	2.1	%	ISO 527-2/5
Flexural Modulus ¹	3900	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	49.0	MPa	
-- ⁴	39.0	MPa	
Flexural Strain at Break ⁵	5.9	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁶ (23°C)	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	15	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, Unannealed, 64.0 mm Span	95.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	81.0	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	6.9E-5	cm/cm/°C	
Transverse : 23 to 60°C	9.3E-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.	2.0 mm/min	
3.	Yield	
4.	Break	
5.	2 mm/min	
6.	80*10*4	
7.	80*10*4	
8.	80*10*4 mm	

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