

LNP™ THERMOCOMP™ AF0029 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP AF0029 is an ABS base resin containing Glass Fiber. Characteristics of this grade are Flame Retardancy.

Also known as: LNP* THERMOCOMP* Compound AF-1002 FR-1 BK8-115

Product reorder name: AF0029

General Information			
UL YellowCard	E121562-101343397		
Filler / Reinforcement	Glass Fiber		
Features	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.28	g/cm ³	
--	1.27	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.50	%	
Across Flow : 24 hr	0.40 to 0.60	%	
Water Absorption			
24 hr, 50% RH	0.19	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	5490	MPa	ASTM D638
--	5040	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	71.0	MPa	ASTM D638
Yield	70.0	MPa	ISO 527-2/5
Break ³	71.0	MPa	ASTM D638
Break	70.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.1	%	ASTM D638
Yield	2.1	%	ISO 527-2/5
Break ⁵	2.1	%	ASTM D638
Break	2.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	4820	MPa	ASTM D790
-- ⁷	4530	MPa	ISO 178
Flexural Stress			

--	100	MPa	ISO 178
Yield, 50.0 mm Span ⁸	110	MPa	ASTM D790
Break, 50.0 mm Span ⁹	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ¹⁰	4.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	280	J/m	ASTM D4812
23°C ¹¹	18	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.76	J	ASTM D3763
--	1.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	105	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	105	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	97.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	97.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	4.0E-6	cm/cm/°C	
Transverse : -30 to 30°C	1.0E-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.	50 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.	2.0 mm/min		
8.	1.3 mm/min		

9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

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Recommended distributors for this material

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