

LNP™ THERMOCOMP™ AC004 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP* THERMOCOMP* AC004 is a compound based on ABS resin containing 20% Carbon Fiber. Added feature of this material is: Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound AC-1004

Product reorder name: AC004

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.30 to 0.60	%	
Water Absorption			
24 hr, 50% RH	0.25	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	13000	MPa	ASTM D638
Tensile Strength			
Break ²	95.0	MPa	ASTM D638
Break	90.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.6	%	ASTM D638
Break	2.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	10600	MPa	ASTM D790
-- ⁵	12800	MPa	ISO 178
Flexural Stress			
--	152	MPa	ISO 178
Break, 50.0 mm Span ⁶	131	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	64	J/m	ASTM D256
23°C ⁷	6.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	320	J/m	ASTM D4812
23°C ⁸	16	kJ/m ²	ISO 180/1U

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 64.0 mm Span ⁹	105	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	213	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	101	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.0E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.2E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
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.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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