

LNP™ THERMOCOMP™ OF008AE compound

Branched Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP* THERMOCOMP* OF008AE is a compound based on PPS - Branched resin containing 40% Glass Fiber. Added feature of this grade is: Easy Molding.

Also known as: LNP* THERMOCOMP* Compound OF-1008 EM

Product reorder name: OF008AE

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Branched Polymer Structure		
	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.36	%	
Across Flow : 24 hr	1.2	%	
Water Absorption			
24 hr, 50% RH	0.21	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.13	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	17000	MPa	ASTM D638
--	16300	MPa	ISO 527-2/1
Tensile Strength			
Break ²	133	MPa	ASTM D638
Break	128	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	0.90	%	ASTM D638
Break	0.90	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	16100	MPa	ASTM D790
-- ⁵	15500	MPa	ISO 178
Flexural Stress			
--	197	MPa	ISO 178
Break, 50.0 mm Span ⁶	205	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	90	J/m	ASTM D256

23°C ⁷	8.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	300	J/m	ASTM D4812
23°C ⁸	19	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	4.16	J	ASTM D3763
--	2.08	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	280	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	277	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	271	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	366	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	3.7E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Rear Temperature	304 to 316	°C	
Middle Temperature	321 to 332	°C	
Front Temperature	332 to 343	°C	
Processing (Melt) Temp	316 to 321	°C	
Mold Temperature	138 to 166	°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.	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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