

LNP™ THERMOCOMP™ OF008A compound

Branched Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP OF008A is a compound based on PPS - Branched resin containing Glass Fiber. This product is also known as THERMOCOMP* OF-1008.

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

Product reorder name: OF008A

General Information			
UL YellowCard	E207780-101284681	E207780-101344624	
Filler / Reinforcement	Glass fiber reinforced material		
Features	Branched polymer structure		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.20	%	ASTM D955
Transverse flow: 24 hours	0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Fracture ¹	178	MPa	ASTM D638
Fracture	160	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ²	1.7	%	ASTM D638
Fracture	1.2	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ³	14300	MPa	ASTM D790
-- ⁴	13400	MPa	ISO 178
Flexural Stress			
--	190	MPa	ISO 178
Yield, 50.0mm span ⁵	248	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	100	J/m	ASTM D256
23°C ⁶	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	590	J/m	ASTM D4812
23°C ⁷	21	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			

1.8 MPa, unannealed, 3.20mm	261	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁸	272	°C	ISO 75-2/Af
CLTE - Flow (23 to 60°C)	2.6E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Rear Temperature	304 - 316	°C	
Middle Temperature	321 - 332	°C	
Front Temperature	332 - 343	°C	
Processing (Melt) Temp	316 - 321	°C	
Mold Temperature	138 - 166	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	Type 1, 5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	1.3 mm/min		
4.	2.0 mm/min		
5.	1.3 mm/min		
6.	80*10*4		
7.	80*10*4		
8.	80*10*4 mm		

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