

LNP™ THERMOCOMP™ OF008H compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP OF008H is a compound based on PPS - Linear containing 40% Glass Fiber. Characteristics of this grade are: Healthcare.

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

Product reorder name: OF008H

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Linear Polymer Structure		
Uses	Medical/Healthcare Applications		
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	0.30	%	
Across Flow : 24 hr	1.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	14100	MPa	ASTM D638
Tensile Strength ² (Break)	140	MPa	ASTM D638
Tensile Elongation ³ (Break)	1.6	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	14200	MPa	ASTM D790
Flexural Strength ⁵ (Break, 50.0 mm Span)	234	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.41		
vs. Itself - Static	0.50		
Wear Factor - Washer	373	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	96	J/m	ASTM D256
Unnotched Izod Impact (23°C)	530	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	264	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (0.450 mm, Testing by SABIC)	V-0		UL 94
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. | 50 mm/min |
| 2. | Type I, 5.0 mm/min |
| 3. | Type I, 5.0 mm/min |
| 4. | 1.3 mm/min |
| 5. | 1.3 mm/min |

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