

LNP™ THERMOCOMP™ OF006 compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP OF006 is a compound based on Linear PPS containing 30% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound OF-1006

Product reorder name: OF006

General Information			
UL YellowCard	E121562-101283821	E121562-101283822	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Linear Polymer Structure		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.024	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.067	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12100	MPa	ASTM D638
--	12000	MPa	ISO 527-2/1
Tensile Strength			
Break ²	132	MPa	ASTM D638
Break	126	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.5	%	ASTM D638
Break	1.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	10000	MPa	ASTM D790
-- ⁵	10500	MPa	ISO 178
Flexural Stress			
--	175	MPa	ISO 178
Break, 50.0 mm Span ⁶	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	58	J/m	ASTM D256
23°C ⁷	5.9	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	390	J/m	ASTM D4812
23°C ⁸	24	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	2.36	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	276	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	275	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	261	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	258	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.2E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.5E-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.	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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