

LNP™ THERMOCOMP™ OF006A compound

Branched Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP OF006A is a compound based on PPS - Branched resin containing 30% Glass Fiber.

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

Product reorder name: OF006A

General Information			
UL YellowCard	E121562-101283821	E121562-101283822	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Branched Polymer Structure		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.30	%	ASTM D955
Across Flow : 24 hr	0.40 to 0.70	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.13 to 0.30	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12700	MPa	ASTM D638
--	12500	MPa	ISO 527-2/1
Tensile Strength			
Break	130	MPa	ASTM D638
Break	129	MPa	ISO 527-2
Tensile Elongation			
Break	1.3	%	ASTM D638
Break	1.2	%	ISO 527-2
Flexural Modulus			
--	11300	MPa	ASTM D790
--	11900	MPa	ISO 178
Flexural Strength			
--	193	MPa	ASTM D790
--	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	69	J/m	ASTM D256
23°C ²	9.7	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	410	J/m	ASTM D4812
23°C ³	31	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.70	J	ASTM D3763
--	2.66	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	268	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	266	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	2.3E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	2.4E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	4.5E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	4.6E-5	cm/cm/°C	ISO 11359-2
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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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