

LNP™ THERMOCOMP™ UF0067W compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP UF0067W is a compound based on Polyphthalamide resin containing 30% glass fiber. Added features of this material include: Hot Water Moldable, Non-Brominated & Non-Chlorinated Flame Retardant.

Also known as: LNP* THERMOCOMP* Compound UF-1006 HW Z270

Product reorder name: UF0067W

General Information			
UL YellowCard	E121562-101284114		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.20 to 0.50	%	
Across Flow : 24 hr	1.2 to 1.5	%	
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10500	MPa	ASTM D638
--	11300	MPa	ISO 527-2/1
Tensile Strength			
Break ²	143	MPa	ASTM D638
Break	128	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.5	%	ASTM D638
Break	1.9	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	10200	MPa	ASTM D790
-- ⁵	9130	MPa	ISO 178
Flexural Stress			
--	189	MPa	ISO 178
Break, 50.0 mm Span ⁶	213	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	64	J/m	ASTM D256
23°C ⁷	5.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	660	J/m	ASTM D4812
23°C ⁸	32	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	1.86	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	299	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	281	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	277	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	2.3E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	2.5E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	5.0E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	5.1E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (0.800 mm, in Oil)	30	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	4.05		
1 MHz	3.82		
Dissipation Factor			ASTM D150
1 kHz	0.012		
1 MHz	0.013		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.00 mm	V-1		
1.50 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 110	°C	
Drying Time	3.0 to 5.0	hr	
Rear Temperature	250 to 280	°C	
Middle Temperature	280 to 320	°C	
Front Temperature	280 to 320	°C	
Nozzle Temperature	280 to 320	°C	
Processing (Melt) Temp	280 to 320	°C	
Mold Temperature	90.0 to 120	°C	
Back Pressure	1.00 to 5.00	MPa	
Screw Speed	30 to 100	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

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