

LNP™ THERMOCOMP™ UF009S compound

Polyphthalamide
SABIC Innovative Plastics

Message:

LNP THERMOCOMP* UF009S is a compound based on Polyphthalamide resin containing 45% Glass Fiber. Added features of this material include: Heat Stabilized.
Also known as: LNP* THERMOCOMP* Compound UF-1009 HS
Product reorder name: UF009S

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.65	g/cm ³	ASTM D792
--	1.64	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	0.46	%	ISO 294-4
Flow : 24 hr	0.18	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.25	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.37	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	20400	MPa	ASTM D638
--	22700	MPa	ISO 527-2/1
Tensile Strength			
Break	242	MPa	ASTM D638
Break	253	MPa	ISO 527-2
Tensile Elongation			
Break	1.7	%	ASTM D638
Break	1.8	%	ISO 527-2
Flexural Modulus			
--	18800	MPa	ASTM D790
--	18300	MPa	ISO 178
Flexural Strength			
--	392	MPa	ASTM D790

--	386	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	170	J/m	ASTM D256
23°C ²	15	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1300	J/m	ASTM D4812
23°C ³	83	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	15.6	J	ASTM D3763
--	4.37	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	258	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	310 to 321	°C	
Middle Temperature	316 to 327	°C	
Front Temperature	327 to 338	°C	
Processing (Melt) Temp	316 to 332	°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		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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