

LNP™ THERMOCOMP™ UF006S compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* UF006S is a compound based on Polyphthalamide resin containing Glass Fiber. Added features of this material include: Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound UF-1006 HS

Product reorder name: UF006S

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	heat stabilizer		
Features	Thermal Stability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.20 - 0.40	%	ASTM D955
Transverse flow: 24 hours	0.50 - 0.70	%	ASTM D955
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	13600	MPa	ASTM D638
Tensile Strength (Break)	197	MPa	ASTM D638
Tensile Elongation (Break)	2.4	%	ASTM D638
Flexural Modulus	10200	MPa	ASTM D790
Flexural Strength	276	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.48		ASTM D3702 Modified
With Self-Static	0.43		ASTM D3702 Modified
Wear Factor - Washer	50.0	10 ⁻¹⁰ in ⁴ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	85	J/m	ASTM D256
Unnotched Izod Impact (23°C)	730	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	258	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	8.3E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	1.2E-4	cm/cm/°C	ASTM E831
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	

Drying Time	4.0	hr
Suggested Max Moisture	0.15	%
Rear Temperature	310 - 321	°C
Middle Temperature	316 - 327	°C
Front Temperature	327 - 338	°C
Processing (Melt) Temp	316 - 332	°C
Mold Temperature	149 - 171	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm
NOTE		

1. 50 mm/min

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