

LNP™ THERMOCOMP™ UF006S compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* UF006S is a compound based on Polyphthalamide resin containing 30% 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			
UL YellowCard	E121562-101344713		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
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 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.50 to 0.70	%	
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
vs. Itself - Dynamic	0.48		
vs. Itself - Static	0.43		
Wear Factor - Washer	50.0	10 ⁻¹⁰ in ⁵ -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
CLTE			ASTM E831
Flow : -40 to 40°C	8.3E-5	cm/cm/°C	
Transverse : -40 to 40°C	1.2E-4	cm/cm/°C	
Injection	Nominal Value	Unit	

Drying Temperature	121	°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	149 to 171	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm
NOTE		

1. 50 mm/min

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