

LNP™ THERMOCOMP™ UF0069S compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* UF0069S is a compound based on Polyphthalamide resin containing 30% Glass Fiber. Added features of this material include: Flame Retardant, Heat Stabilized.

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

Product reorder name: UF0069S

General Information			
UL YellowCard	E121562-101358193	E121562-101377968	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Flame Retardant		
	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.66	g/cm³	ASTM D792
--	1.65	g/cm³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.60	%	ASTM D955
Across Flow : 24 hr	0.59	%	ISO 294-4
Flow : 24 hr	0.22	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.24	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.26	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13800	MPa	ASTM D638
--	12100	MPa	ISO 527-2/1
Tensile Strength			
Break	182	MPa	ASTM D638
Break	166	MPa	ISO 527-2
Tensile Elongation			
Break	1.9	%	ASTM D638
Break	1.7	%	ISO 527-2
Flexural Modulus			
--	12100	MPa	ASTM D790

--	12300	MPa	ISO 178
Flexural Strength			
--	258	MPa	ASTM D790
--	265	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	91	J/m	ASTM D256
23°C ²	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	550	J/m	ASTM D4812
23°C ³	45	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	2.90	J	ASTM D3763
Flammability	Nominal Value	Test Method	
	V-0		

Flame Rating (1.50 mm)	5VA	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	282 to 293	°C	
Middle Temperature	288 to 299	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	299 to 310	°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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