

LNP™ THERMOCOMP™ RF0039S compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* RF0039S is a compound based on Nylon 66 resin containing 15% Glass Fiber, Flame Retardant. Added features of this material include: Flame Retardant, Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound RF-1003 FR HS

Product reorder name: RF0039S

General Information			
UL YellowCard	E121562-101281598		
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Heat Stabilizer		
Features	Flame Retardant		
	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.49	g/cm³	ASTM D792
--	1.48	g/cm³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.90	%	ASTM D955
Across Flow : 24 hr	1.3	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.89	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.49	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6070	MPa	ASTM D638
--	6300	MPa	ISO 527-2/1
Tensile Strength			
Break	101	MPa	ASTM D638
Break	98.4	MPa	ISO 527-2
Tensile Elongation			
Break	3.0	%	ASTM D638
Break	2.9	%	ISO 527-2
Flexural Modulus			
--	5170	MPa	ASTM D790
--	600	MPa	ISO 178
Flexural Strength			
--	160	MPa	ASTM D790

--	165	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ²	5.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	520	J/m	ASTM D4812
23°C ³	38	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	5.70	J	ASTM D3763
--	1.71	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	252	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	227	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	219	°C	ISO 75-2/Af
Flammability	Nominal Value	Test Method	
Flame Rating (1.70 mm, Testing by SABIC)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	277 to 288	°C	
Mold Temperature	82.2 to 93.3	°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		
4.	80*10*4 mm		

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