

LNP™ THERMOCOMP™ RF0049SP compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP RF0049SP is a compound based on Nylon 66 containing 20% Glass Fiber. Added features of this grade include: Flame Retardant, Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound RF-1004 FR HS

Product reorder name: RF0049SP

General Information			
UL YellowCard	E121562-101281598		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Flame Retardant		
	Heat Stabilizer		
Features	Flame Retardant		
	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.60	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9610	MPa	ISO 527-2/1
Tensile Strength			
Break ¹	140	MPa	ASTM D638
Break	140	MPa	ISO 527-2/5
Tensile Elongation			
Yield ²	2.3	%	ASTM D638
Break ³	2.4	%	ASTM D638
Break	2.2	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	8650	MPa	ASTM D790
-- ⁵	8170	MPa	ISO 178
Flexural Strength ⁶ (Break, 50.0 mm Span)	203	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	67	J/m	ASTM D256
23°C ⁷	7.0	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	600	J/m	ASTM D4812
23°C ⁸	36	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	2.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	255	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	253	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	241	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	235	°C	ISO 75-2/Af
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.	Type I, 5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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