

LNP™ THERMOCOMP™ RF008ESY compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP THERMOCOMP* RF008ESY is a compound based on Nylon 66 resin containing 40% Glass Fiber. Added features of this material include: Easy Molding, Heat Stabilized.
Also known as: LNP* THERMOCOMP* Compound RF-1008 EM HS
Product reorder name: RF008ESY

General Information			
UL YellowCard	E121562-101281596		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Moldability		
	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	1.1	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.17	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.77	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13000	MPa	ASTM D638
--	11900	MPa	ISO 527-2/1
Tensile Strength			
Break	169	MPa	ASTM D638
Break	168	MPa	ISO 527-2
Tensile Elongation			
Break	2.4	%	ASTM D638
Break	2.8	%	ISO 527-2
Flexural Modulus			
--	9100	MPa	ASTM D790
--	11300	MPa	ISO 178
Flexural Strength			
--	246	MPa	ASTM D790
--	264	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	110	J/m	ASTM D256
23°C ²	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812
23°C ³	74	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	11.7	J	ASTM D3763
--	3.71	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	229	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	227	°C	ISO 75-2/Af
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	HB		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	282 to 304	°C	
Mold Temperature	93.3 to 110	°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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