

LNP™ THERMOCOMP™ RF006EUC

compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP RF006EUC is a compound based on Nylon 66 resin containing 30% Glass Fiber. Added features of this material include Easy Molding, UV Stabilized.

Also known as: LNP* THERMOCOMP* Compound RF-1006 EM UV

Product reorder name: RF006EUC

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	UV Stabilizer		
Features	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.50	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.86	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.4	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9790	MPa	ASTM D638
--	9850	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	136	MPa	ASTM D638
Yield	139	MPa	ISO 527-2/5
Break ³	135	MPa	ASTM D638
Break	137	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.2	%	ASTM D638
Yield	2.2	%	ISO 527-2/5
Break ⁵	2.3	%	ASTM D638
Break	2.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	8640	MPa	ASTM D790
-- ⁷	8200	MPa	ISO 178

Flexural Stress			
--	207	MPa	ISO 178
--	207	MPa	ISO 178
Yield, 50.0 mm Span ⁸	85.5	MPa	ASTM D790
Break, 50.0 mm Span ⁹	80.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	62	J/m	ASTM D256
23°C ¹⁰	6.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	730	J/m	ASTM D4812
23°C ¹¹	44	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.10	J	ASTM D3763
--	1.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	249	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	248	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	229	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	226	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.6E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.9E-5	cm/cm/°C	
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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		

7.	2.0 mm/min
8.	1.3 mm/min
9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

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Recommended distributors for this material

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