

LNP™ THERMOCOMP™ RF00CSXS

compound

Polyamide 66

SABIC Innovative Plastics Asia Pacific

Message:

LNP THERMOCOMP RF00CSXS is a compound based on Nylon 66 resin containing Glass Fiber. Added features of this material include: Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound RF-100-12 HS

Product reorder name: RF00CSXS

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.72	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.30	%	ASTM D955
Across Flow : 24 hr	0.40	%	ASTM D955
Across Flow : 24 hr	0.44	%	ISO 294-4
Flow : 24 hr	0.29	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- 1	21400	MPa	ASTM D638
--	21400	MPa	ISO 527-2/1
Tensile Strength			
Yield	254	MPa	ASTM D638
Yield	253	MPa	ISO 527-2
Break	254	MPa	ASTM D638
Break	253	MPa	ISO 527-2
Tensile Elongation			
Yield	2.2	%	ASTM D638
Yield	2.1	%	ISO 527-2
Break	2.2	%	ASTM D638
Break	2.1	%	ISO 527-2
Flexural Modulus			
--	19300	MPa	ASTM D790
--	20000	MPa	ISO 178

Flexural Strength			
--	359	MPa	ASTM D790
--	375	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	160	J/m	ASTM D256
23°C ²	19	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1200	J/m	ASTM D4812
23°C ³	77	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	10.3	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	260	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	260	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	255	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	254	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	3.8E-5	cm/cm/°C	
Transverse : -40 to 40°C	1.6E-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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

