

LNP™ THERMOCOMP™ QF006 compound

Polyamide 610

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* QF006 is a compound based on Nylon 6/10 resin containing 30% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound QF-1006

Product reorder name: QF006

General Information			
UL YellowCard	E121562-101281585		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	1.0	%	ASTM D955
Across Flow : 24 hr	0.98 to 0.99	%	ISO 294-4
Flow : 24 hr	0.17 to 0.18	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.20	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.33	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8410	MPa	ASTM D638
--	8800	MPa	ISO 527-2/1
Tensile Strength			
Break	150	MPa	ASTM D638
Break	153	MPa	ISO 527-2
Tensile Elongation			
Break	3.6	%	ASTM D638
Break	3.5	%	ISO 527-2
Flexural Modulus			
--	7860	MPa	ASTM D790
--	7800	MPa	ISO 178
Flexural Strength			
--	251	MPa	ASTM D790
--	219	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	120	J/m	ASTM D256

23°C ²	9.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812
23°C ³	72	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	9.93	J	ASTM D3763
--	2.72	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	221	°C	
1.8 MPa, Unannealed, 3.20 mm	207	°C	
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	3.1E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.3E-5	cm/cm/°C	
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	0.12 to 0.20	%	
Rear Temperature	249 to 260	°C	
Middle Temperature	260 to 271	°C	
Front Temperature	271 to 282	°C	
Processing (Melt) Temp	271 to 277	°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		

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