

LNP™ THERMOCOMP™ QC008 compound

Polyamide 610

SABIC Innovative Plastics

Message:

LNP THERMOCOMP QC008 is a compound based on Nylon 6/10 containing 40% Carbon Fiber. Added feature of this grade is: Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound QC-1008

Product reorder name: QC008

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.29	g/cm ³	ASTM D792
--	1.28	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.060 to 0.080	%	
Across Flow : 24 hr	0.60 to 0.70	%	
Water Absorption			
24 hr, 50% RH	0.31	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.31	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	44200	MPa	ASTM D638
--	31900	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	233	MPa	ASTM D638
Yield	237	MPa	ISO 527-2/5
Break ³	233	MPa	ASTM D638
Break	237	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.8	%	ASTM D638
Yield	1.6	%	ISO 527-2/5
Break ⁵	1.8	%	ASTM D638
Break	1.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	20300	MPa	ASTM D790
-- ⁷	22400	MPa	ISO 178
Flexural Strength ⁸ (Yield, 50.0 mm Span)	363	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	130	J/m	ASTM D256
23°C ⁹	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1300	J/m	ASTM D4812
23°C ¹⁰	68	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	222	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	223	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	217	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	216	°C	ISO 75-2/Af
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.	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.	80*10*4		
10.	80*10*4		
11.	80*10*4 mm		
12.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

