

LNP™ THERMOCOMP™ EC006 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* EC006 is a compound based on Polyetherimide resin containing Carbon Fiber. Added features of this material include: Electrically Conductive.

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

Product reorder name: EC006

General Information			
UL YellowCard	E207780-101282611		
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.30 - 0.50	%	ASTM D955
Vertical flow direction: 24 hours	0.39	%	ISO 294-4
Flow direction: 24 hours	0.10	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.20	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.29	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	19400	MPa	ASTM D638
--	20900	MPa	ISO 527-2/1
Tensile Strength			
Fracture	197	MPa	ASTM D638
Fracture	183	MPa	ISO 527-2
Tensile Elongation			
Fracture	1.3	%	ASTM D638
Fracture	1.1	%	ISO 527-2
Flexural Modulus			
--	18200	MPa	ASTM D790
--	17900	MPa	ISO 178
Flexural Strength			
--	280	MPa	ASTM D790
--	269	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified

With self-dynamics	0.52		ASTM D3702 Modified
With Self-Static	0.48		ASTM D3702 Modified
Wear Factor - Washer	75.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ²	5.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	370	J/m	ASTM D4812
23°C ³	26	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.80	J	ASTM D3763
--	2.47	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	218	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	219	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 - 354	°C	
Middle Temperature	354 - 366	°C	
Front Temperature	366 - 377	°C	
Processing (Melt) Temp	360 - 366	°C	
Mold Temperature	121 - 149	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	60 - 100	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	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

