

LNP™ THERMOCOMP™ EC006E compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* EC006E is a compound based on Polyetherimide resin containing 30% Carbon Fiber. Added features of this material include: Easy Molding, Electrically Conductive

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

Product reorder name: EC006E

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Electrically Conductive		
	Good Moldability		
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 hr	0.10	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	0.51	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.17	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	23300	MPa	ASTM D638
--	18500	MPa	ISO 527-2/1
Tensile Strength			
Break	231	MPa	ASTM D638
Break	215	MPa	ISO 527-2
Tensile Elongation			
Break	1.5	%	ASTM D638
Break	1.3	%	ISO 527-2
Flexural Modulus			
--	19200	MPa	ASTM D790
--	20800	MPa	ISO 178
Flexural Strength			
--	315	MPa	ASTM D790
--	306	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified

vs. Itself - Dynamic	0.52		
vs. Itself - Static	0.48		
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 Strength ² (23°C)	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	35	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	6.30	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	206	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	208	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 to 354	°C	
Middle Temperature	354 to 366	°C	
Front Temperature	366 to 377	°C	
Processing (Melt) Temp	360 to 366	°C	
Mold Temperature	121 to 149	°C	
Back Pressure	0.344 to 0.689	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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