

LNP™ THERMOCOMP™ EC005 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP EC005 is a compound based on Polyetherimide resin containing Carbon Fiber. Added features include : Electrically Conductive.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction: 24 hours	0.30 - 0.50	%	ISO 294-4
Flow direction: 24 hours	0.10 - 0.30	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18400	MPa	ISO 527-2/1
Tensile Stress (Break)	191	MPa	ISO 527-2/5
Tensile Strain (Break)	1.3	%	ISO 527-2/5
Flexural Modulus ¹	13600	MPa	ISO 178
Flexural Stress	243	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact 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
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	214	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+4	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.	2.0 mm/min	
2.	80*10*4	
3.	80*10*4	
4.	80*10*4 mm	

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Recommended distributors for this material

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