

Latiohm 88/10-06 CNT

Polyetheretherketone

LATI S.p.A.

Message:

Partially conductive/dissipative compound based on Polyetheretherketone (PEEK).
Carbon nanotubes.

General Information			
Filler / Reinforcement	Carbon Nano		
Features	Semi Conductive		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	1.2 to 1.6	%	
Flow : 2.00 mm	1.2 to 1.6	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	12000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	175	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	50	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	295	°C	ISO 75-2/B
1.8 MPa, Unannealed	235	°C	ISO 75-2/A
Vicat Softening Temperature	> 300	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+3	ohms	ASTM D257
Volume Resistivity	2.0E+4	ohms·cm	ASTM D257
Electromagnetic Reflection ²	88	%	
Injection	Nominal Value	Unit	
Drying Temperature	120 to 150	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	360 to 390	°C	
Mold Temperature	170 to 200	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	at 60 MPa of cavity pressure		

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