

Latiohm 83-07 PD11 CNT

Polyamide 12

LATI S.p.A.

Message:

Semiconductive/dissipative product based on Polyamide 12 (PA12), impact modified. Carbon nanotubes.

General Information			
Filler / Reinforcement	Carbon nano filler		
Additive	Impact modifier		
Features	Semi-conductive		
	Impact modification		

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Transverse flow: 2.00mm	0.80 - 1.2	%	ISO 294-4
Flow: 2.00mm	0.80 - 1.2	%	ISO 294-4

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1100	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield, 23°C	35.0	MPa	ISO 527-2/5
Fracture, 23°C	35.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield, 23°C	20	%	ISO 527-2/5
Fracture, 23°C	85	%	ISO 527-2/5

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	75	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	100	°C	ISO 75-2/B
1.8 MPa, not annealed	40.0	°C	ISO 75-2/A
Vicat Softening Temperature	120	°C	ISO 306/B50

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+7	ohms	ASTM D257
Volume Resistivity	1.0E+8	ohms · cm	ASTM D257

NOTE			
1.	60 MPa		

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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

