

LATIOHM 83-07 PD11 CNT

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 12*

General Information

Product Description

Semiconductive/dissipative product based on Polyamide 12 (PA 12). Carbon nanotubes. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Nano		
Features	• Antistatic	• Electrically Conductive	• PFAS Free

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.03	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	1.4 to 1.8	%	
Flow : 0.0787 in	0.90 to 1.2	%	
Water Absorption ³ (Saturation, 73°F)	0.70	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	160000	psi	ISO 527-1/1
Tensile Stress (Yield, 73°F)	4350	psi	ISO 527-2/5
Tensile Stress (Break, 73°F)	No Break		ISO 527-2/5
Tensile Strain (Yield, 73°F)	25	%	ISO 527-2/5
Tensile Strain (Break, 73°F)	> 50	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	38	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	212	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	104	°F	ISO 75-2/A
Vicat Softening Temperature	248	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	5.6E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	5.6E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	8.0E+7	ohms	ASTM D257
Volume Resistivity	2.0E+8	ohms·cm	ASTM D257

Notes

¹ Typical properties: these are not to be construed as specifications.

² 60 MPa

³ in air

