LATIOHM 85-06 PD01 G/15

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyethersulfone*

General Information

Product Description

Semiconductive/dissipative product based on Polyethersulphone (PESU). Glass fibres. Intrinsically flame retardant. PFAS-free product.

General

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

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.50	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.25 to 0.45	%	
Flow : 0.0787 in	0.10 to 0.25	%	
Water Absorption			ISO 62
Saturation, 73°F [3]	1.6	%	
Saturation, 73°F [4]	0.60	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	1.96E+6	psi	
140°F	1.96E+6	psi	
194°F	1.89E+6	psi	
248°F	1.74E+6	psi	
302°F	1.52E+6	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	21000	psi	
Break, 140°F	19600	psi	
Break, 194°F	18100	psi	
Break, 248°F	15200	psi	
Break, 302°F	13800	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.4	%	
Break, 140°F	1.2	%	
Break, 194°F	1.2	%	
Break, 248°F	1.2	%	
Break, 302°F	1.0	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	2.9	ft·lb/in²	
73°F	2.9	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	12	ft·lb/in²	
73°F	12	ft·lb/in²	

Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (66 psi, Unannealed)	428	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	410	°F	ISO 75-2/A
Vicat Softening Temperature	419	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	3.1E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- [5]	2.1	Btu·in/hr/ft²/°F	
-- [6]	2.1	Btu·in/hr/ft²/°F	

Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	2.0E+2	ohms	ASTM D257
Volume Resistivity	2.0E+2	ohms·cm	ASTM D257

Flammability	**Nominal Value**	**Unit**	**Test Method**
Glow Wire Flammability Index			IEC 60695-2-12
0.08 in	1760	°F	
0.12 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.08 in	1520	°F	
0.12 in	1610	°F	

Notes

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

[2] 60 MPa

[3] in water

[4] in air

[5] through plane

[6] in plane