LATISHIELD 87/28-10A G/20

LATI INDUSTRIA TERMOPLASTICI SPA - *Polycarbonate*

General Information

Product Description

EMI shielding product based on Polycarbonate (PC). Steel fibres. Glass fibres. Low smoke density and low toxicity index. High dimensional stability. PFAS-free product.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber	• Stainless Steel Fiber	
Features	• Electromagnetic Shielding (EMI)	• High Heat Resistance	• PFAS Free
Uses	• High Temperature Applications		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.44	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.50 to 0.75	%	
Flow : 0.0787 in	0.20 to 0.40	%	
Water Absorption [3] (Saturation, 73°F)	0.12	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	754000	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	13100	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	4.3	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	21	ft·lb/in²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	284	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	275	°F	ISO 75-2/A
Vicat Softening Temperature	293	°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)	2.8E-5	in/in/°F	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2	ohms	ASTM D257
Volume Resistivity	1.0E+3	ohms·cm	ASTM D257
Electromagnetic Reflection - Bekiscan - CP	92	%	

Notes

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

[2] 60 MPa

[3] in air