

Latishield 75/4-10A

Polybutylene Terephthalate

LATI S.p.A.

Message:

EMI shielding product based on Polybutylene Terephthalate (PBT).
Steel fibres.

General Information			
Filler / Reinforcement	Steel		
Features	Electromagnetic Shielding (EMI)		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	1.7 to 2.0	%	
Flow : 2.00 mm	1.7 to 2.0	%	
Water Absorption (23°C, 24 hr)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2200	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield, 23°C	35.0	MPa	
Break, 23°C	30.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	4.0	%	
Break, 23°C	> 100	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	30	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	165	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Vicat Softening Temperature	180	°C	ISO 306/B50
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 ²	94	%	
Dimensional Stability	58.0		
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	3.0 to 5.0	hr	

Processing (Melt) Temp	240 to 250	°C
Mold Temperature	70.0 to 90.0	°C
Injection Rate	Slow	

NOTE		
1.	60 MPa	
2.	Bekiscan - CP	

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