SCHULATEC® TinCo 50

Polyamide 6

A. Schulman Europe

Message:

Plastic/metal hybrid based on polyamide with very high electrical conductivity and electromagnetic damping properties for injection moulding.

General Information			
Filler / Reinforcement	Metal		
Features	Good Electrical Properties		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	3.40	g/cm³	ISO 1183/A
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4100	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	33.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.0	kJ/m²	
23°C	9.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	12	kJ/m²	
23°C	15	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	181	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	110	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	215	°C	ISO 306/A50
--	201	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	5.0E-4	ohms·cm	IEC 60093
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate	< 100	mm/min	ISO 3795
Flame Rating (1.50 mm)	HB		UL 94

Recommended distributors for this material

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