



SLS ALLUSINTER

AlluSinter is a structural material made of Nylon filled with aluminum; excellent for applications which require good mechanical and thermal characteristics. The reduced grain size allows an excellent detail. AlluSinter results an ideal material for both structural and aesthetic applications. Because of its excellent workability AlluSinter is particularly suitable for post-process treatment like painting, vacuum metallization, etc.

Mechanical Properties	Test Method	English	Metric
Tensile Strength X direction	ISO 527-1/-2	-----	48 MPa
Tensile Strength Y direction	ISO 527-1/-2	-----	48 MPa
Tensile Modulus X direction	ISO 527-1/-2	-----	3,800 MPa
Tensile Modulus Y direction	ISO 527-1/-2	-----	3,800 MPa
Strain at Break X direction	ISO 527-1/-2	-----	4 %
Charpy Impact Strength (+23°C X Direction)	ISO 179/1eU	-----	29 KJ/m ²
Charpy Notched Impact Strength (+23°C X Direction)	ISO 179/1eA	-----	4.6 KJ/m ²
Flexural Modulus (23°C, X Direction)	ISO 178	-----	3,600 MPa
Flexural Strength (X Direction)	ISO 178	-----	72 MPa
Volume resistivity (X Direction)	IEC 60093	-----	3E12 Ohm*m

Thermal Properties	Test Method	English	Metric
Temp. of Deflection under load (1.80 MPa, X Direction)	ISO 75-1/-2	-----	144°C
Temp. of Deflection under load (0.45 MPa, X Direction)	ISO 75-1/-2	-----	175°C
Vicat Softening Temperature (50°C/h 50N)	ISO 306	-----	169°C
Melting Temperature (20°C/min)	ISO 11357-1/-3	-----	176°C

Other	Test Method	Value	Available Colors
Density	-----	1.360 Kg/m ³	<input type="checkbox"/> Light Grey
Relative Permittivity (100Hz)	IEC 60250	13	
Relative Permittivity (1MHz)	IEC 60250	10	
Dissipation Factor (1MHz)	IEC 60250	180 E-4	
Surface Resistivity	IEC 60093	5E14 ohm	
Electric Strength	IEC 60243-1	0.1 kV/mm	
Shore D Hardness (15s)	ISO 868	76	

The information presented are typical values intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes.

End-use material performance can be impacted (+/-) by, but not limited to, part design, end-use conditions, etc. Actual values will vary with build conditions.

Product specifications are subject to change without notice.

The performance characteristics of these materials may vary according to application, operating conditions, or end use. Each user is responsible for determining that the material is safe, lawful and technical suitable for the intended laws and regulations. Zare makes no warranties of any kind, express or implied, including, but not limited to, the warranties of merchantability, fitness for a particular use, or warranty against patent infringement.

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