

Meldin[®] 7001 ISOSTATICALLY MOLDED

The following table is a list of typical physical property values for Meldin[®] 7001 Isostatically Molded

Properties	ASTM	Units [Metric]	Value [Metric]
GENERAL			
Specific Gravity	D792	—	1.43
Hardness Rockwell E	D785	—	54
Water Absorption, 24 Hours	D570	%	0.25
MECHANICAL			
Tensile Strength	D638	psi [MPa]	12,900 [88.9]
Elongation	D638	%	8.4
Flexural Strength @ 5% Strain	D790	psi [MPa]	15,700 [108.2]
Flexural Modulus	D790	psi x 10 ⁵ [GPa]	4.7 [3.2]
Compressive Stress @ 1% Strain	D695	psi [MPa]	3,000 [20.7]
@ 10% Strain	D695	psi [MPa]	18,000 [124.1]
@ 0.1% Offset	D695	psi [MPa]	6,000 [41.4]
Compressive Modulus	D695	psi x 10 ⁵ [GPa]	3.26 [2.2]
ELECTRICAL			
Dielectric Strength	D149	V/mil [MV/m]	450 [18]
THERMAL			
Coefficient of Thermal Expansion 75 – 500 °F [24 – 260 °C]	E831	in/in/°F x 10 ⁻⁵ [m/m/°C]	2.9 [5.3]
MECHANICAL @ 500 °F [260 °C]			
Tensile Strength	D638	psi [MPa]	5,400 [37.2]
Elongation	D638	%	4.5



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SPECIFICATION QUALIFICATION

ASTM D 6456-99 Standard Specification for Finished Parts Made from Polyimide Resin (Type 1M)

SAE AMS 3644G Polyimide, Molded Rod, Bar and Tube, Plaque, and Formed Parts (Class 1 Form M)

MIL-R-46198 Resin, Polyimide, Hot Pressed or Pressed and Sintered (Type 1M)

NOTE: The data listed here falls within the normal range of properties but should not be used to establish specification limits nor used alone as the basis of design. Saint-Gobain Performance Plastics assumes no obligation or liability for any advice furnished by it or for results obtained with respect to the products.