

Meldin[®] 7021 ISOSTATICALLY MOLDED

The following table is a list of typical physical property values for Meldin[®] 7021 Isostatically Molded

Properties	ASTM	Units [Metric]	Value [Metric]
GENERAL			
Specific Gravity	D792	—	1.51
Hardness Rockwell E	D785	—	50
Water Absorption, 24 Hours	D570	%	0.2
MECHANICAL			
Tensile Strength	D638	psi [MPa]	9,500 [65.5]
Elongation	D638	%	4.5
Flexural Strength	D790	psi [MPa]	15,600 [108]
Flexural Modulus	D790	psi x 10 ⁵ [GPa]	5.7 [3.9]
Compressive Stress @ 1% strain	D695	psi [MPa]	3,800 [26.2]
Compressive Stress @ 10% strain	D695	psi [MPa]	19,300 [133]
Compressive Modulus	D695	psi x 10 ⁵ [GPa]	3.26 [2.3]
ELECTRICAL			
Dielectric Strength	D149	V/mil [MV/m]	104 [4]
THERMAL			
Coefficient of Thermal Expansion 75 – 500 °F [24 – 260 °C]	E831	in/in/°F x 10 ⁻⁵ [m/m/°C]	2.5 [4.5]
MECHANICAL @ 500 °F [260 °C]			
Tensile Strength	D638	psi [MPa]	5,500 [38]
Elongation	D638	%	4.3



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SPECIFICATION QUALIFICATION

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

SAE AMS 3644G Polyimide, Molded Rod, Bar and Tube, Plaque, and Formed Parts (Class 2 Form M)

MIL-R-46198 Resin, Polyimide, Hot Pressed or Pressed and Sintered (Type II Class 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.