

Meldin[®] 7211 COMPRESSION MOLDED

The following table is a list of typical physical property values for Meldin[®] 7211 Compression Molded

Properties	ASTM	Units [Metric]	Value [Metric]
GENERAL			
Specific Gravity	D792	—	1.53
Hardness Rockwell E	D785	—	1 – 15
Water Absorption, 24 Hours	D570	%	0.23
Water Absorption, 48 Hours	D570	%	0.46

MECHANICAL

Tensile Strength	D638	psi [MPa]	7,500 [52]
Elongation	D638	%	4.0
Flexural Strength	D790	psi [MPa]	11,800 [81.4]
Flexural Modulus	D790	psi x 10 ⁵ [GPa]	5.0 [3.4]
Compressive Stress @ 1% strain	D695	psi [MPa]	3,500 [24]
Compressive Stress @ 10% strain	D695	psi [MPa]	14,950 [103.1]
Compressive Modulus	D695	psi x 10 ⁵ [GPa]	3.5 [2.4]

THERMAL

Coefficient of Thermal Expansion 73 – 500 °F [23 – 260 °C]	E831	in/in/°F x 10 ⁻⁵ [m/m/°C]	2.4 [4.3]
Thermal Conductivity	F433	BTU in/hr ft ² °F [W/m.K]	5.2 [0.74]
Flammability	UL94	—	V-0, 5VA

MECHANICAL @ 500 °F [260 °C]

Tensile Strength	D638	psi [MPa]	4,300 [30]
Elongation	D638	%	2.8
Flexural Strength	D790	psi [MPa]	6,000 [41]
Flexural Modulus	D790	psi x 10 ⁵ [GPa]	3.0 [2.1]
Compressive Strength	D695	psi [MPa]	9,350 [64.5]

SPECIFICATION QUALIFICATION

ASTM D 6456-99 Standard Specification for Finished Parts Made from Polyimide Resin (Type II Class 3P)

SAE AMS 3644G Polyimide, Molded Rod, Bar and Tube, Plaque, and Formed Parts (Class 4 Form P)

MIL-R-46198 Resin, Polyimide, Hot Pressed or Pressed and Sintered (Type II Class 3P)

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.

Features / Benefits

- Meldin[®] 7211 grade provides the lowest coefficient of friction.

Working Temperature Range

- 112 °F to + 600 °F
[- 80 °C to + 315 °C]

Color

- Black

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