

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

Warranty Information: All information contained herein is believed to be correct but is presented without any guarantee, warranty or representation of any kind, express or implied. Technical data set forth herein is based on tests and measurements conducted in our laboratory under controlled conditions. Suggestions concerning possible applications of our products are made without representation or warranty that such use is free from patent infringement and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated, or that other such measures may not be required.

Saint-Gobain Performance Plastics Corporation

Bristol, RI 02809 USA
Tel: (401) 253-2000
Fax: (401) 253-8211

Saint-Gobain Performance Plastics N.V.

B-2550 Kontich – Belgium
Phone : +32 3 458 28 28
Fax : +32 3 458 26 69

Saint-Gobain KK Performance Plastics

Tokyo 102-0083, Japan
Phone : +81 33 26 30 285
Fax : +81 33 26 30 286

www.plastics.saint-gobain.com

Meldin® is a registered trademark.
© 2006 Saint-Gobain Performance Plastics Corporation
SGPPL.BR.TDS.007.2006