

# Meldin<sup>®</sup> 7003 ISOSTATICALLY MOLDED

The following table is a list of typical physical property values for Meldin<sup>®</sup> 7003 Isostatically Molded

Properties	ASTM	Units [Metric]	Value [Metric]
<b>GENERAL</b>			
Specific Gravity	D792	—	1.61
Hardness Rockwell E	D785	—	46
Water Absorption, 24 Hours	D570	%	0.24
<b>MECHANICAL</b>			
Tensile Strength	D638	psi [MPa]	9,000 [62.1]
Elongation	D638	%	4.5
Flexural Strength	D790	psi [MPa]	13,600 [93.7]
Flexural Modulus	D790	psi x 10 <sup>5</sup> [GPa]	5.2 [3.6]
Compressive Stress			
@ 1% Strain	D695	psi [MPa]	3,600 [24.8]
@ 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 <sup>5</sup> [GPa]	3.63 [2.5]
<b>THERMAL</b>			
Coefficient of Thermal Expansion 75 – 500 °F [24 – 260 °C]	E831	in/in/°F x 10 <sup>-5</sup> [m/m/°C]	2.87 [5.16]



**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](http://www.plastics.saint-gobain.com)

Meldin<sup>®</sup> is a registered trademark.  
© 2008 Saint-Gobain Performance Plastics Corporation  
SGPPL.BR.TDS.059.2008

## SPECIFICATION QUALIFICATION

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

SAE AMS 3644G Polyimide, Molded Rod, Bar and Tube, Plaque, and Formed Parts (Class 5 Form M)

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

**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.