

## Overview of materials for Styrene/Methyl Methacrylate Copolymer (SMMA)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Styrene/Methyl Methacrylate Copolymer (SMMA)

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Styrene/Methyl Methacrylate Copolymer (SMMA)". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Overview-of-materials-for-StyreneMethyl-Methacrylate-Copolymer-SMMA.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-StyreneMethyl-Methacrylate-Copolymer-SMMA.php)

Physical Properties	Metric	English	Comments
Density	1.03 - 1.13 g/cc	0.0372 - 0.0408 lb/in <sup>3</sup>	Average value: 1.07 g/cc Grade Count:13
Water Absorption	0.100 - 1.00 %	0.100 - 1.00 %	Average value: 0.196 % Grade Count:10
Linear Mold Shrinkage	0.00200 - 0.00600 cm/cm	0.00200 - 0.00600 in/in	Average value: 0.00400 cm/cm Grade Count:12
Melt Flow	0.400 - 26.9 g/10 min	0.400 - 26.9 g/10 min	Average value: 4.70 g/10 min Grade Count:13

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75.0 - 85.0	75.0 - 85.0	Average value: 79.3 Grade Count:3
Hardness, Shore D	69.0 - 75.0	69.0 - 75.0	Average value: 72.0 Grade Count:4
Tensile Strength, Ultimate	25.5 - 65.5 MPa	3700 - 9500 psi	Average value: 43.7 MPa Grade Count:9
Tensile Strength, Yield	57.2 - 85.0 MPa	8300 - 12300 psi	Average value: 68.7 MPa Grade Count:4
Elongation at Break	2.30 - 54.0 %	2.30 - 54.0 %	Average value: 18.6 % Grade Count:13
Modulus of Elasticity	2.20 - 3.45 GPa	319 - 501 ksi	Average value: 2.96 GPa Grade Count:6
Flexural Modulus	1.58 - 3.16 GPa	229 - 458 ksi	Average value: 2.44 GPa Grade Count:11
Izod Impact, Notched	0.160 - 0.481 J/cm	0.300 - 0.900 ft-lb/in	Average value: 0.274 J/cm Grade Count:12

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.0 - 100 °C	169 - 212 °F	Average value: 85.1 °C Grade Count:9
Deflection Temperature at 1.8 MPa	76.1 - 98.9 °C	169 - 210 °F	

(264 psi) Thermal Properties	Metric	English	Average value: 91.9 °C Grade Count: 4 Comments
Vicat Softening Point	92.0 - 103 °C	198 - 217 °F	Average value: 98.2 °C Grade Count: 11

Optical Properties	Metric	English	Comments
Transmission, Visible	80.0 - 92.0 %	80.0 - 92.0 %	Average value: 88.8 % Grade Count: 11

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