

## Network Polymers MS 100 Styrene Methyl Methacrylate Copolymer

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

### Material Notes:

Description: Styrene Methyl Methacrylate Copolymer Information provided by Network Polymers Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Network-Polymers-MS-100-Styrene-Methyl-Methacrylate-Copolymer.php](http://www.lookpolymers.com/polymer_Network-Polymers-MS-100-Styrene-Methyl-Methacrylate-Copolymer.php)

| Physical Properties   | Metric                                                | English                                               | Comments                            |
|-----------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------|
| Specific Gravity      | 1.08 g/cc                                             | 1.08 g/cc                                             | ASTM D792                           |
| Water Absorption      | 0.10 %                                                | 0.10 %                                                | 24 hours; ASTM D570                 |
| Linear Mold Shrinkage | 0.0020 - 0.0060 cm/cm                                 | 0.0020 - 0.0060 in/in                                 | ASTM D955                           |
| Melt Flow             | 0.40 g/10 min<br>@Load 5.00 kg,<br>Temperature 200 °C | 0.40 g/10 min<br>@Load 11.0 lb,<br>Temperature 392 °F | Procedure A Condition G; ASTM D1238 |

| Mechanical Properties     | Metric     | English        | Comments                                                      |
|---------------------------|------------|----------------|---------------------------------------------------------------|
| Tensile Strength at Break | 65.5 MPa   | 9500 psi       | chs 2 in/min; ASTM D638                                       |
| Elongation at Break       | 2.3 %      | 2.3 %          | chs 2 in/min; ASTM D638                                       |
| Tensile Modulus           | 3.45 GPa   | 501 ksi        | chs 2 in/min; ASTM D638                                       |
| Flexural Modulus          | 3.16 GPa   | 458 ksi        | Test Method I, Procedure B (chs speed 0.05 in/min); ASTM D790 |
| Izod Impact, Notched      | 0.246 J/cm | 0.460 ft-lb/in | 0.125 inch bar; ASTM D256                                     |

| Thermal Properties                          | Metric  | English | Comments   |
|---------------------------------------------|---------|---------|------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 93.0 °C | 199 °F  | ASTM D648  |
| Vicat Softening Point                       | 102 °C  | 216 °F  | ASTM D1525 |

| Optical Properties    | Metric | English | Comments   |
|-----------------------|--------|---------|------------|
| Transmission, Visible | 89 %   | 89 %    | ASTM D1003 |

## Contact Songhan Plastic Technology Co.,Ltd.

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