

## Network Polymers MS 600 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-600-Styrene-Methyl-Methacrylate-Copolymer.php](http://www.lookpolymers.com/polymer_Network-Polymers-MS-600-Styrene-Methyl-Methacrylate-Copolymer.php)

| Physical Properties   | Metric                                               | English                                              | Comments                            |
|-----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------|
| Specific Gravity      | 1.13 g/cc                                            | 1.13 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             | 1.8 g/10 min<br>@Load 5.00 kg,<br>Temperature 200 °C | 1.8 g/10 min<br>@Load 11.0 lb,<br>Temperature 392 °F | Procedure A Condition G; ASTM D1238 |

| Mechanical Properties   | Metric     | English        | Comments                  |
|-------------------------|------------|----------------|---------------------------|
| Hardness, Rockwell M    | 85         | 85             | ASTM D785                 |
| Tensile Strength, Yield | 68.9 MPa   | 10000 psi      | 2 in per min; ASTM D638   |
| Elongation at Break     | 5.5 %      | 5.5 %          | chs 2 in/min; ASTM D638   |
| Modulus of Elasticity   | 3.169 GPa  | 459.6 ksi      | ASTM D638                 |
| Izod Impact, Notched    | 0.214 J/cm | 0.400 ft-lb/in | 0.125 inch bar; ASTM D256 |

| Thermal Properties                          | Metric  | English | Comments  |
|---------------------------------------------|---------|---------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 98.9 °C | 210 °F  | ASTM D648 |

| Optical Properties    | Metric | English | Comments   |
|-----------------------|--------|---------|------------|
| Transmission, Visible | 92 %   | 92 %    | ASTM D1003 |

## Contact Songhan Plastic Technology Co.,Ltd.

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