

# SOLARENE DM500

General Purpose Polystyrene  
Dongbu Hannong Chemical

Message:

SOLARENE DM500 is a General Purpose Polystyrene product. It is available in Asia Pacific or Europe. Primary characteristic: flame rated.

| General Information                                              |               |                   |                         |
|------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Forms                                                            | Pellets       |                   |                         |
| Physical                                                         | Nominal Value | Unit              | Test Method             |
| Specific Gravity                                                 | 1.14          | g/cm <sup>3</sup> | ASTM D792               |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)                         | 5.0           | g/10 min          | ASTM D1238              |
| Molding Shrinkage - Flow                                         | 0.40 to 0.90  | %                 | ASTM D955               |
| Water Absorption (24 hr)                                         | 0.050         | %                 | ASTM D570               |
| Hardness                                                         | Nominal Value | Unit              | Test Method             |
| Rockwell Hardness (L-Scale)                                      | 70            |                   | ASTM D785               |
| Mechanical                                                       | Nominal Value | Unit              | Test Method             |
| Tensile Strength                                                 | 39.2          | MPa               | ASTM D638               |
| Tensile Elongation (Break)                                       | 40            | %                 | ASTM D638               |
| Flexural Modulus                                                 | 2350          | MPa               | ASTM D790               |
| Flexural Strength                                                | 60.8          | MPa               | ASTM D790               |
| Impact                                                           | Nominal Value | Unit              | Test Method             |
| Notched Izod Impact                                              | 170           | J/m               | ASTM D256               |
| Thermal                                                          | Nominal Value | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm) | 75.0          | °C                | ASTM D648               |
| Vicat Softening Temperature                                      |               |                   |                         |
| --                                                               | 98.0          | °C                | ASTM D1525 <sup>1</sup> |
| --                                                               | 88.0          | °C                | ASTM D1525 <sup>2</sup> |
| RTI Elec                                                         |               |                   | UL 746                  |
| 1.57 mm                                                          | 50.0          | °C                |                         |
| 3.15 mm                                                          | 50.0          | °C                |                         |
| RTI Imp                                                          |               |                   | UL 746                  |
| 1.57 mm                                                          | 50.0          | °C                |                         |
| 3.15 mm                                                          | 50.0          | °C                |                         |
| RTI Str                                                          |               |                   | UL 746                  |
| 1.57 mm                                                          | 50.0          | °C                |                         |
| 3.15 mm                                                          | 50.0          | °C                |                         |
| Electrical                                                       | Nominal Value | Unit              | Test Method             |
| Volume Resistivity                                               | 1.0E+17       | ohms · cm         | ASTM D257               |
| Dielectric Constant (1 MHz)                                      | 2.50          |                   | ASTM D150               |

| Flammability | Nominal Value    | Unit | Test Method |
|--------------|------------------|------|-------------|
| Flame Rating |                  |      | UL 94       |
| 1.57 mm, ALL | V-0              |      |             |
| 3.15 mm, ALL | V-0              |      |             |
| NOTE         |                  |      |             |
| 1.           | Loading 1 (10 N) |      |             |
| 2.           | Loading 2 (50 N) |      |             |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

