

# DENKA STYROL MF-21-301

General Purpose Polystyrene

Denka Company Limited

Message:

High molecular weight transparent polystyrene resins with superior impact strength

| General Information                               |                           |                   |             |
|---------------------------------------------------|---------------------------|-------------------|-------------|
| UL YellowCard                                     | E49895-241590             |                   |             |
| Features                                          | High Flow                 |                   |             |
|                                                   | High Heat Resistance      |                   |             |
| Uses                                              | General Purpose           |                   |             |
| Agency Ratings                                    | JHOSPA Unspecified Rating |                   |             |
| UL File Number                                    | E49895                    |                   |             |
| Appearance                                        | Blue                      |                   |             |
| Physical                                          | Nominal Value             | Unit              | Test Method |
| Density (23°C)                                    | 1.04                      | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)          | 4.5                       | g/10 min          | ISO 1133    |
| Hardness                                          | Nominal Value             | Unit              | Test Method |
| Rockwell Hardness (M-Scale, 23°C)                 | 75                        |                   | ISO 2039-2  |
| Mechanical                                        | Nominal Value             | Unit              | Test Method |
| Tensile Stress (Break)                            | 47.0                      | MPa               | ISO 527-2/5 |
| Tensile Strain (Break)                            | < 3.0                     | %                 | ISO 527-2/5 |
| Flexural Modulus <sup>1</sup>                     | 3350                      | MPa               | ISO 178     |
| Flexural Stress <sup>2</sup>                      | 107                       | MPa               | ISO 178     |
| Impact                                            | Nominal Value             | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)             | 2.2                       | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                           | Nominal Value             | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 78.0                      | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                       | 99.0                      | °C                | ISO 306/B   |
| Flammability                                      | Nominal Value             |                   | Test Method |
| Flame Rating                                      | HB                        |                   | UL 94       |
| Optical                                           | Nominal Value             | Unit              | Test Method |
| Transmittance (2000 μm)                           | 90.0                      | %                 | ISO 13468   |
| Haze (2000 μm)                                    | 0.30                      | %                 | ISO 14782   |
| NOTE                                              |                           |                   |             |
| 1.                                                | 2.0 mm/min                |                   |             |
| 2.                                                | 2.0 mm/min                |                   |             |

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