DENKA Transparent Polymer TX-100S



Methyl Methacrylate Styrene

Denka Company Limited

Technical Data

| _ | | | 4.4 |
|-------|------|--------|-------|
| Proc | luct | Descri | ntion |
| 1 100 | iuci | DESCH | Pull |

Processing Method

Haze (2000 µm)

DENKA Transparent Polymer TX-100S is a Methyl Methacrylate Styrene (MMS) product. It can be processed by injection molding and is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

· Injection Molding

General

| General | | | |
|-----------------------------|---|--------|---------------|
| Material Status | Commercial: Active | | |
| Literature ¹ | Technical Datasheet (English)Technical Datasheet (English) | | |
| UL Yellow Card ² | • E49895-241562 | | |
| Search for UL Yellow Card | Denka Company Lim | ited | |
| Availability | Asia Pacific | Europe | North America |
| UL File Number | • E49895 | | |

| Physical | Nominal Value Unit | Test Method | |
|--|------------------------|-----------------|--|
| Density (23°C) | 1.13 g/cm ³ | ISO 1183 | |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 1.8 g/10 min | ISO 1133 | |
| Molding Shrinkage (2.00 mm) | 0.40 % | Internal Method | |
| Water Absorption (Equilibrium) | 0.12 % | ASTM D570 | |
| Mechanical | Nominal Value Unit | Test Method | |
| Tensile Stress (Break) | 67.0 MPa | ISO 527-2/5 | |
| Nominal Tensile Strain at Break | 6.0 % | ISO 527-2/5 | |
| Flexural Modulus ⁴ | 3400 MPa | ISO 178 | |
| Flexural Stress ⁴ | 115 MPa | ISO 178 | |
| Impact | Nominal Value Unit | Test Method | |
| Charpy Notched Impact Strength | 2.0 kJ/m² | ISO 179 | |
| Thermal | Nominal Value Unit | Test Method | |
| Deflection Temperature Under Load | | ISO 75-2/Af | |
| 1.8 MPa, Unannealed | 79.0 °C | | |
| Vicat Softening Temperature | 100 °C | ISO 306/B | |
| Flammability | Nominal Value Unit | Test Method | |
| Flame Rating | НВ | UL 94 | |
| Optical | Nominal Value Unit | Test Method | |
| Refractive Index ⁵ | 1.540 | ASTM D542 | |
| Light Transmittance (2000 μm) | 92.0 % | ISO 13468-1 | |
| | | | |

| Injection | Nominal Value Unit | |
|--------------------|--------------------|--|
| Drying Temperature | 70 to 80 °C | |
| Drying Time | 3.0 to 4.0 hr | |
| Rear Temperature | 190 to 240 °C | |
| Middle Temperature | 190 to 240 °C | |
| Front Temperature | 190 to 240 °C | |
| Nozzle Temperature | 220 to 240 °C | |
| Mold Temperature | 40 to 70 °C | |

0.200%

Form No. TDS-100857-en

ISO 14782

DENKA Transparent Polymer TX-100S

Methyl Methacrylate Styrene

Denka Company Limited



Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.
- ³ Typical properties: these are not to be construed as specifications.
- 4 2.0 mm/min
- ⁵ NA*D ray

Form No. TDS-100857-en

DENKA Transparent Polymer TX-100S

Methyl Methacrylate Styrene

Denka Company Limited



Where to Buy

Supplier

Denka Company Limited Tokyo, Tokyo Japan Telephone: +81-3-5290-5553 Web: http://www.denka.co.jp/

Distributor

Calsak Polymers

Telephone: 800-743-2595 Web: http://www.calsak.com/ Availability: North America

Resin Resource, Inc. Telephone: 877-652-3431

Web: http://www.resinresourceinc.com/

Availability: North America

