+135-3858-6433 (GuangDong)
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CYROLITE®
ADVANCED
MEDICAL ACRYLICS

PRODUCT INFORMATION

# CYROLITE® MD 6N S000

Product Profile:

CYROLITE® MD 6N S000 is an amorphous thermoplastic molding compound (PMMA) for the medical diagnostic industry.

Typical properties of CYROLITE® MD acrylic polymers are:

- Exceptional ultra-violet light transmittance
- Superior optical clarity
- Maximum flow characteristics
- Excellent dimensional stability

The special properties of CYROLITE® MD 6N S000 are:

- Complies to U.S. Pharmacopeia class VI
- Very good mechanical properties
- High heat deflection temperature
- Excellent flow / melt viscosity

Application:

Used for injection molding of medical devices requiring UV spectroscopy for fluid evaluation.

Examples:

Diagnostic test packs, cuvettes, microfluidics and crystallography trays.

Processing:

CYROLITE® MD 6N S000 can be processed on injection molding machines with 3-zone general purpose screws for engineering thermoplastics.

Physical Form / Packaging:

CYROLITE® MD 6N S000 molding compounds are supplied as pellets of uniform size, packaged in 25kg polyethylene bags or in 500kg boxes with PE lining; other packaging on request.

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## Properties:

| | Parameter | Unit | Standard | CYROLITE® MD 6N S000 |
|---|---|---|---|---|
| **Mechanical Properties** | | | | |
| Tensile Modulus | 1 mm/min | MPa | ISO 527 | 3200 |
| Stress @ Break | 5 mm/min | MPa | ISO 527 | 67 |
| Strain @ Break | 5 mm/min | % | ISO 527 | 3 |
| Charpy Impact Strength | 23°C | kJ/m² | ISO 179/1eU | 20 |
| **Thermal Properties** | | | | |
| Vicat Softening Temperature | B / 50 | °C | ISO 306 | 96 |
| Coeff. of Linear Therm. Expansion | 0 - 50°C | E-5 /°K | ISO 11359 | 8 |
| Classes of construction product | | | DIN EN 13501-1 | E |
| Flammability UL 94 | 1.5 mm | Class | IEC 60695-11-10 | HB |
| **Rheological Properties** | | | | |
| Melt Volume Rate, MVR | 230°C / 3,8kg | cm³/10min | ISO 1133 | 12 |
| **Optical Properties** | d=3 mm | | | |
| Luminous transmittance | D65 | % | ISO 13468-2 | 92 |
| Refractive Index | 589nm/23°C | | ISO 489 | 1,49 |
| **Other Properties** | | | | |
| Density | | g/cm³ | ISO 1183 | 1.19 |
| | | | | |

All listed technical data are typical values intended for your guidance. They are given without obligation and do not constitute a materials specification.

Certified to ISO 9001:2015, ISO 14001:2015 and IATF 16949:2016.

RÖHM