

## 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.

**Properties:**

	Parameter	Unit	Standard	CYROLITE® MD 6N S000
<b>Mechanical Properties</b>				
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/m <sup>2</sup>	ISO 179/1eU	20
<b>Thermal Properties</b>				
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
<b>Rheological Properties</b>				
Melt Volume Rate, MVR	230°C / 3,8kg	cm <sup>3</sup> /10min	ISO 1133	12
<b>Optical Properties</b>				
	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	92
Refractive Index	589nm/23°C		ISO 489	1,49
<b>Other Properties</b>				
Density		g/cm <sup>3</sup>	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.

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