

PRODUCT INFORMATION

CYROLITE® Med 2

Product Profile:

CYROLITE® Med 2 is a PMMA-based copolymer for injection molding and extrusion of medical applications.

Typical properties of CYROLITE® acrylic-based copolymer compounds are:

- High Light Transmittance with little haze
- 5 times the impact resistance of unmodified acrylics
- Resistant to body fluids and many chemicals
- Excellent bonding to PVC tubing
- Can be thermal bonded, ultrasonic and laser welded
- Good heat resistance
- Resistance to EtO, gamma and E-beam sterilization

The special properties of CYROLITE® Med 2 are:

- Superior resistance to lipids, blood, and oncology drugs
- Excellent resistance to alcohols and disinfectant wipes
- Excellent ductility

Application:

Used for injection molding and extrusion of medical device and diagnostics industries.

Examples:

Filter Housings, Luer Locks, Connectors, Blood Separator, IV, Lab and Pediatric Filters.

Processing:

CYROLITE® Med 2 can be processed in injection molding machines and extrusion lines with 3- zone general purpose screws.

Physical Form / Packaging:

Available in 1500 lb. gaylord boxes; other packaging available on request.

Regulatory and compliance requirements:

Meets requirements of the United States Pharmacopeia Class VI in colorless (000) only; ISO 10993-1 in colorless (000) only and FDA for food contact for all use conditions up to and including hot filled or pasteurized above 150 degrees F (e.g. Condition 21 CFR 176.170) for all food types except those containing more than 8% alcohol.

Properties:

	Parameter	Unit	Standard	CYROLITE® Med 2
Mechanical Properties				
Tensile Modulus	1 mm/min	MPa	ISO 527	1600
Yield Stress	50 mm/min	MPa	ISO 527	31
Yield Strain	50 mm/min	%	ISO 527	3,6
Nominal Strain @ Break		%	ISO 527	34
Charpy Impact Strength	23°C	kJ/m ²	ISO 179/1eU	174
Charpy Notched Impact Strength	23°C	kJ/m ²	ISO 179/1	16,6
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	81
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	82,5
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	76,4
Rheological Properties				
Melt Volume Rate, MVR	230°C & 3,8kg	cm ³ /10min	ISO 1133	0,6
Optical Properties				
	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	85,7
Haze		%	ASTM D1003	7,0
Other Properties				
Density		g/cm ³	ISO 1183	1.1

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.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

ACRYLITE, ACRYMID, CYROLITE, CYREX, CYRO, Vu-Stat and XT polymer are registered trademarks of Roehm America LLC. Roehm is a worldwide manufacturer of PMMA products sold under the ACRYLITE® trademark in the Americas and under the PLEXIGLAS® trademark in the European, Asian, African and Australian continents. ©2017 Roehm America LLC. All rights reserved

Roehm America LLC • 8 Campus Drive • Parsippany NJ 07054 • USA
www.cyrolite.com
www.roehm.com

Ref. No.: MC183 A1142

