CYROLITE® Med 2

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

Message:

CYROLITE Med 2 compound is an impact-modified acrylic-based multipolymer for molding and extrusion of medical applications.
Typical properties of CYROLITE® acrylic-based multipolymer compounds are:
excellent chemical resistance to fats and oils
excellent bonding and welding capabilities
excellent bonding to PVC tubing
good impact strength
good light transmission
good resistance to EtO, gamma and E-beam sterilization
The special properties of CYROLITE Med 2 compound are:
superior resistance to lipids
superior resistance to alcohol
excellent ductility
Used for injection molding and extrusion of medical devices.

General Information	
Additive	Impact Modifier
Features	Alcohol Resistant
	Bondability
	Ductile
	E-beam Sterilizable
	Ethylene Oxide Sterilizable
	Good Chemical Resistance
	Good Impact Resistance
	Medium Clarity
	Radiation Sterilizable
	Weldable
Uses	Medical/Healthcare Applications
Agency Ratings	EC 1907/2006 (REACH)
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm³	ASTM D792
Apparent Density	0.65	g/cm³	ASTM D1895
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	2.1	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption (24 hr)	0.38	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	33		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1720	MPa	ASTM D638
Tensile Strength	36.7	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.9	%	
Break	22	%	
Flexural Modulus	1650	MPa	ASTM D790
Flexural Strength	59.2	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 6.35 mm)	120	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed)	72.8	°C	ASTM D648
Vicat Softening Temperature	93.9	°C	ASTM D1525
CLTE - Flow (0 to 156°C)	8.6E-5	cm/cm/°C	ASTM D696
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (3200 µm)	85.0	%	ASTM D1003
Haze (3200 µm)	7.0	%	ASTM D1003
Yellowness Index (3.20 mm)	-1.0	YI	Internal Method
Injection	**Nominal Value**	**Unit**	
Drying Temperature	71.1	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	216 to 249	°C	
Mold Temperature	48.9 to 82.2	°C	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China