CYROLITE® CG-97

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

Message:

CYROLITE CG-97 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 CG-97 compound are:
superior resistance to lipids
excellent gamma sterilization color stability
high impact resistance
very good resistance to alcohol
Used for injection molding and extrusion of medical devices.

General Information	
UL YellowCard	E54671-244548
Additive	Impact Modifier
Features	Alcohol Resistant
	Bondability
	E-beam Sterilizable
	Ethylene Oxide Sterilizable
	Good Chemical Resistance
	Good Color Stability
	High Clarity
	High Impact Resistance
	Impact Modified
	Radiation Sterilizable
	Weldable
Uses	Medical/Healthcare Applications
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 176.170
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method

Specific Gravity	1.08	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	1.8	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption (Saturation)	0.40	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (L-Scale)	47		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1860	MPa	ASTM D638
Tensile Strength	36.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.8	%	
Break	14	%	
Flexural Modulus	1860	MPa	ASTM D790
Flexural Strength	67.6	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	120	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed, 6.35 mm)	70.0	°C	ASTM D648
Vicat Softening Temperature	90.0	°C	ASTM D1525
CLTE - Flow (0 to 156°C)	9.5E-5	cm/cm/°C	ASTM D696
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (3200 µm)	87.0	%	ASTM D1003
Haze (81.3 µm)	5.0	%	ASTM D1003
Yellowness Index (3.20 mm)	-0.30	YI	ASTM D1925
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

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