+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)



PRODUCT INFORMATION

CYROLITE® CG-97

Product Profile:

CYROLITE® CG-97 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® CG-97 are:

- · Superior resistance to lipids
- · Excellent gamma sterilization color stability

Application:

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

Examples:

Needle hubs, IV, lab and pediatric filters.

Processing:

CYROLITE® CG-97 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.

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Properties:

	Parameter	Unit	ASTM-Standard	CYROLITE® CG- 97
Mechanical Properties				Typical Value
Tensile Strength		psi [MPa]	D 638	5270 [36.3]
Tensile Modulus		x106 psi [GPa]	D 638	0.27 [1.9]
Tensile Elongation @ Yield		%	D 638	3.8
Tensile Elongation @ Break		%	D 638	13.9
Flexural Strength		psi [MPa]	D 790	9800 [67.6]
Flexural Modulus		x10 ⁶ psi [GPa]	D 790	0.27 [1.8]
Notched Izod	1/4" bar @23°C	ft-lb/in [J/m]	D 256	2.7 [143]
Rockwell Hardness		M Scale	D 785	47
Thermal Properties				
Vicat Softening Point	50N, 50°C/h	°F [°C]	D 1525	194 [90]
Deflection Temperature, Annealed	1.8MPa, 0.250"	°F [°C]	D 648	158 [70]
Coeff. of Linear Therm. Expansion	32 - 312°F	1/F	D 696	0.000053
Coeff. of Linear Therm. Expansion	0 - 100°C	1/C	D 696	0.000095
Rheological Properties				
Melt Flow Rate	230°C & 5.0 kg	g/10min	D 1238	1.8
Optical Properties	d = 3.2 mm			
Light Transmission		%	D 1003	87
Haze		%	D 1003	5.0
Yellowness Index			E 313	-0.3
Other Properties				
Specific Gravity			D 792	1.08
Water Absorption		% Max	D 570	0.4
Mold Shrinkage	_	in/in, mm/mm	D 955	0.005 - 0.007
Bulk Density		g/cc	D 1895	0.65

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.

