

Product Information**CYROLITE® CG-97 compound****PRODUCT PROFILE**

CYROLITE® CG-97 compound is an impact modified acrylic-based multipolymer for molding and extrusion medical applications.

TYPICAL PROPERTIES OF CYROLITE® POLYMERS 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
- BPS, BPA, and DEHP free

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

APPLICATION:

Used for injection molding and extrusion of medical devices.

EXAMPLES:

Needle hubs, IV, lab and pediatric filters.

PROCESSING:

CYROLITE® CG-97 compound can be processed in injection molding machines and extrusion lines with 3- zone general purpose screws.

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 001 tint only; ISO 10993-1 in 001 tint 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 | ASTM-Standard | CYROLITE® CG-97 compound |
|-----------------------------------|----------------|----------------------------|---------------|--------------------------|
| Mechanical Properties | | | | Typical Value |
| Tensile Strength | | psi [MPa] | D 638 | 5270 [36.3] |
| Tensile Modulus | | X10 ⁶ 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 | ¼" bar @23°C | ft-lb/in [J/m] | D 256 | 2.3 [122] |
| Rockwell Hardness | | L Scale | D 785 | 47 |
| Thermal Properties | | | | |
| Vicat Softening Point | 264 psi | °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 | in/ in/°F | D 696 | 0.000053 |
| Coeff. of Linear Therm. Expansion | 0 - 100°C | mm/mm/°C | D 696 | 0.000095 |
| Rheological Properties | | | | |
| Melt Flow Rate | 230°C & 5.0 kg | g/10 min | D 1238 | 1.8 |
| Optical Properties | | | | |
| | d = 3.2 mm | | | |
| Light Transmission | | % | D 1003 | 87 |
| Haze | | % | D 1003 | 5.0 |
| Yellowness Index | | | Evonik TM | -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/cm ³ | 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.

CYROLITE® CG-97

For more information on CYROLITE® CG-97 visit www.acrylite-polymers.com or call +1 800 225-0172

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