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



PRODUCT INFORMATION

CYROLITE® G-20 HIFLO

Product Profile:

CYROLITE® G-20 HIFLO 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® G-20 HIFLO are:

• Excellent melt flow rate

Application:

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

Examples:

Blood Filter Housings, Drip Chambers, Connectors, Y-Sites, Needle Hubs and Check Valves.

Processing:

CYROLITE® G-20 HIFLO 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 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.

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

Properties:

	Parameter	Unit	ASTM-Standard	CYROLITE® G-20 HIFLO
Mechanical Properties				Typical Value
Tensile Strength		psi [MPa]	D 638	7000 [48.3]
Tensile Modulus		x10 ⁶ psi [GPa]	D 638	0.37 [2.6]
Tensile Elongation @ Yield		%	D 638	3.6
Tensile Elongation @ Break		%	D 638	9.5
Flexural Strength		psi [MPa]	D 790	9400 [64.8]
Flexural Modulus		x10 ⁶ psi [GPa]	D 790	0.31 [2.1]
Notched Izod	1/4" bar @23°C	ft-lb/in [J/m]	D 256	1.9 [101]
Notched Izod	1/4" bar @0°C	ft-lb/in [J/m]	D 256	1.1 [59]
Rockwell Hardness		M Scale	D 785	27
Thermal Properties				
Vicat Softening Point	50N, 50°C/h	°F [°C]	D 1525	214 [101]
Deflection Temperature, Annealed	1.8MPa, 0.250"	°F [°C]	D 648	186 [86]
Coeff. of Linear Therm. Expansion	32 - 312°F	1/°F	D 696	0.0000514
Coeff. of Linear Therm. Expansion	0 - 100°C	1/°C	D 696	0.0000925
Rheological Properties				
Melt Flow Rate	230°C & 5.0 kg	g/10min	D 1238	10.0
Optical Properties	d = 3.2 mm			
Light Transmission		%	D 1003	89
Haze		%	D 1003	6.0
Yellowness Index			E 313	-0.3
Other Properties				
Specific Gravity			D 792	1.11
Water Absorption		% Max	D 570	0.3
Mold Shrinkage		in/in, mm/mm	D 955	0.004 - 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.

