CYROLITE® Protect 2 F22P

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

Message:

CYROLITE® Protect 2 acrylic based multipolymer compound provides antimicrobial capabilities against a variety of microorganisms commonly found in healthcare facilities.
Benefits of CYROLITE® Protect 2 compound:
Excellent chemical resistance to lipids and alcohol
excellent bonding and welding capabilities
excellent bonding to PVC tubing
excellent ductility
EtO, gamma and E-beam sterilizable
resistant to plasticizers found in flexible PVC tubing
Free of bisphenol A (BPA)
Typical Medical Applications:
Luer connectors, IV Spikes, Needle hubs, Adapters, Fittings, Filter housings, Y-sites, Valve assemblies, Protection caps and covers and Sharp needle dispenser receptacles. This product is not recommended for blood handling devices.

General Information	
Features	Bondability
	BPA Free
	Ductile
	E-beam Sterilizable
	Ethylene Oxide Sterilizable
	Food Contact Acceptable
	Good Chemical Resistance
	Microbe Resistant
	Radiation Sterilizable
	Weldable
Uses	Caps
	Connectors
	Filters
	Fittings
	Housings
	Medical/Healthcare Applications
	Valves/Valve Parts
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 176.170
	USP Class VI
RoHS Compliance	RoHS Compliant
Appearance	Blue

Forms	Pellets
Processing Method	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	2.5	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1800	MPa	ASTM D638
Tensile Strength	40.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.0	%	
Break	17	%	
Flexural Modulus	1900	MPa	ASTM D790
Flexural Strength	61.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 6.35 mm)	91	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed, 6.35 mm)	65.0	°C	ASTM D648
Vicat Softening Temperature	94.0	°C	ASTM D1525
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (1500 µm)	11.0	%	ASTM D1003
Haze (1500 µm)	32	%	ASTM D1003
Injection	**Nominal Value**	**Unit**	
Drying Temperature	71.0	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	238 to 254	°C	
Mold Temperature	60.0 to 77.0	°C	
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	71.0	°C	
Drying Time	3.0 to 4.0	hr	
Melt Temperature	238 to 254	°C	

Recommended distributors for this material

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