CYREX® 200-8005

Polycarbonate + Acrylic (PMMA)

Evonik Cyro LLC

Message:

CYREX 200-8005 alloy is an opaque, acrylic polycarbonate alloy with an impact strength that is higher than polycarbonate for molding and extrusion medical applications.
Typical properties of CYREX® acrylic-polycarbonate alloys are:
outstanding impact strength and toughness
excellent processing characteristics
very good chemical resistance
good heat resistance
The special properties of CYREX 200-8005 alloy are:
medium melt flow rate
excellent resistance to both alcohol and lipids
good resistance to EtO, gamma and E-beam sterilization
Used for injection molding and extrusion of both thin and thick wall applications which require excellent toughness.

General Information	
Features	Alcohol Resistant
	E-beam Sterilizable
	Ethylene Oxide Sterilizable
	Good Chemical Resistance
	Good Processability
	Good Toughness
	High Impact Resistance
	Medium Flow
	Medium Heat Resistance
	Radiation Sterilizable
Uses	Medical/Healthcare Applications
	Thick-walled Parts
	Thin-walled Parts
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 176.170
	USP Class VI
Appearance	Opaque
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm³	ASTM D792

Apparent Density	0.65	g/cm³	ASTM D1895
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.80	%	ASTM D551
Water Absorption (24 hr)	< 0.26	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	49		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2210	MPa	ASTM D638
Tensile Strength (Yield)	55.2	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.3	%	
Break	57	%	
Flexural Modulus	2210	MPa	ASTM D790
Flexural Strength	77.9	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	1400	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed)	101	°C	ASTM D648
Vicat Softening Temperature	141	°C	ASTM D1525
CLTE - Flow (0 to 100°C)	9.4E-5	cm/cm/°C	ASTM D696
Optical	**Nominal Value**		**Test Method**
Transmittance	Opaque		ASTM D1003
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	199 to 266	°C	
Middle Temperature	199 to 266	°C	
Front Temperature	199 to 266	°C	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	65.6 to 98.9	°C	

Recommended distributors for this material

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