CYREX® 200-8000

Polycarbonate + Acrylic (PMMA)

Evonik Cyro LLC

Message:

CYREX 200-8000 alloy is an opaque, acrylicpolycarbonate alloy with an impact strength that is higher than polycarbonate.
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 property of CYREX 200-8000 alloy is:
medium melt flow rate
Used for injection molding and extrusion of both thin and thick wall applications which require excellent toughness.

General Information	
Features	Good Chemical Resistance
	Good Processability
	Good Toughness
	High Impact Resistance
	Medium Flow
	Medium Heat Resistance
Uses	Appliances
	Automotive Applications
	Containers
	Furniture
	Housings
	Sheet
	Thick-walled Parts
	Thin-walled Parts
	Toys
Agency Ratings	EC 1907/2006 (REACH)
Appearance	Opaque
Forms	Pellets
Processing Method	Extrusion
	Injection Molding
	Thermoforming

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)	3.9	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)	46		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2410	MPa	ASTM D638
Tensile Strength (Yield)	61.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.7	%	
Break	58	%	
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	86.2	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
0°C, 3.18 mm	210	J/m	
23°C, 3.18 mm	1600	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed)	101	°C	ASTM D648
Vicat Softening Temperature	136	°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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