

CYREX® 200-8005

(PC+PMMA)

Evonik CYRO LLC

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	3.5	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	3.8	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	2200	MPa	ASTM D 638
Tensile Strength	55.2	MPa	ASTM D 638
Elongation at Yield	4.3	%	ASTM D 638
Elongation at Break	57	%	ASTM D 638
Flexural Modulus	2200	MPa	ASTM D 790
Flexural Strength	78.9	MPa	ASTM D 790
Rockwell Hardness	M 49	-	ASTM D 785
Izod Impact notched, 1/8 in	1390	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Coefficient of Thermal Expansion, MD	93.6	E-6/K	ASTM D 696
Vicat Temperature	141	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water Absorption, Equilibrium	0.3	%	ASTM D 570
Density	1150	kg/m ³	ASTM D 792
Bulk Density	650	kg/m ³	-

Characteristics**Processing**

Injection Molding, Other Extrusion

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Chemical Resistance

General Chemical Resistance, Radiation Resistance

Certifications

Food contact, Food approval FDA 21 CFR, Medical Grade, Biocompatibility ISO 10993, US Pharmacopeia Class VI Approved

Applications

Medical

Regional Availability

North America