

CYROLITE® G20

PMMA

Evonik CYRO LLC

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	2.6	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data			
Tensile Modulus	2200	MPa	ASTM D 638
Tensile Strength	46.9	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	9.5	%	ASTM D 638
Flexural Modulus	2300	MPa	ASTM D 790
Flexural Strength	72.4	MPa	ASTM D 790
Rockwell Hardness	M 39	-	ASTM D 785
Izod Impact notched, 1/4 in	101	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	59	J/m	ASTM D 256
Temperature	0	°C	-
Thermal properties			
ASTM Data			
Coefficient of Thermal Expansion, MD	92.5	E-6/K	ASTM D 696
Vicat Temperature	101	°C	ASTM D 1525
Optical properties			
ASTM Data			
Haze	5	%	ASTM D 1003
Light Transmittance	89	%	ASTM D 1003
Other properties			
Water Absorption, Equilibrium	0.3	%	ASTM D 570
Density	1110	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, Transparent

Features

Light Guiding, Weldable

Chemical Resistance

General Chemical Resistance, Oil Resistance, Radiation Resistance

Certifications

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

Applications

Medical, Packaging

Regional Availability

North America