

ACRYLITE® Solar IM20

PMMA

Evonik CYRO LLC

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	3	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	3.8	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3300	MPa	ISO 527
Stress at break	77	MPa	ISO 527
Strain at break	5.5	%	ISO 527
Charpy impact strength, +23°C	20	kJ/m ²	ISO 179/1eU

Thermal properties	Value	Unit	Test Standard
ISO Data			
Glass transition temperature, 10°C/min	117	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	98	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	103	°C	ISO 75-1/-2
Vicat softening temperature, B	108	°C	ISO 306
Coeff. of linear therm. expansion, parallel	80	E-6/K	ISO 11359-1/-2

Optical properties	Value	Unit	Test Standard
ISO Data			
Luminous transmittance	92	%	ISO 13468-1, -2
ASTM Data			
Haze	0.5	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Density	1190	kg/m ³	ISO 1183

Characteristics**Processing**

Injection Molding, Profile Extrusion, Sheet Extrusion

Delivery form

Pellets

Special Characteristics

U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Features

Amorphous, Light Guiding

Regional Availability

North America