

**ACRYLITE® M30**

PMMA

Evonik CYRO LLC

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>24</b>	g/10min	ASTM D 1238
Temperature	<b>230</b>	°C	-
Load	<b>3.8</b>	kg	-
Mold Shrinkage, MD	<b>0.0045</b>	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	<b>3200</b>	MPa	ASTM D 638
Tensile Strength	<b>63.4</b>	MPa	ASTM D 638
Elongation at Yield	<b>3</b>	%	ASTM D 638
Elongation at Break	<b>3</b>	%	ASTM D 638
Flexural Modulus	<b>3200</b>	MPa	ASTM D 790
Flexural Strength	<b>107</b>	MPa	ASTM D 790
Rockwell Hardness	<b>M 89</b>	-	ASTM D 785
Izod Impact notched, 1/4 in	<b>19</b>	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Coefficient of Thermal Expansion, MD	<b>72</b>	E-6/K	ASTM D 696
Vicat Temperature	<b>90</b>	°C	ASTM D 1525

Optical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Haze	<b>1</b>	%	ASTM D 1003
Light Transmittance	<b>92</b>	%	ASTM D 1003
Index of Refraction	<b>1.49</b>	-	ASTM D 542

Other properties	Value	Unit	Test Standard
Water Absorption, Equilibrium	<b>0.3</b>	%	ASTM D 570
Density	<b>1190</b>	kg/m <sup>3</sup>	ASTM D 792
Bulk Density	<b>660</b>	kg/m <sup>3</sup>	-

**Characteristics****Processing**

Injection Molding

**Additives**

Lubricants

**Special Characteristics**

U.V. stabilized or stable to weather

**Features**

Amorphous, Light Guiding

**Applications**

Medical

**Regional Availability**

North America