

**ACRYLITE® MD H12**

PMMA

Evonik CYRO LLC

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	7	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	3.8	kg	-
Mold Shrinkage, MD	0.005	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	3200	MPa	ASTM D 638
Tensile Strength	65.5	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	5	%	ASTM D 638
Flexural Modulus	3400	MPa	ASTM D 790
Flexural Strength	117	MPa	ASTM D 790
Rockwell Hardness	M 94	-	ASTM D 785
Izod Impact notched, 1/4 in	19	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Coefficient of Thermal Expansion, MD	72	E-6/K	ASTM D 696
Vicat Temperature	105	°C	ASTM D 1525

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

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

**Characteristics****Processing**

Injection Molding, Other Extrusion

**Special Characteristics**

U.V. stabilized or stable to weather

**Features**

Amorphous, Light Guiding

**Certifications**

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

**Applications**

Medical

**Regional Availability**

North America