

**CRYSTALUX® IH830HT**

PMMA

LX MMA Corp.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	1.7	g/10min	ISO 1133
Temperature	230	°C	-
Load	3.8	kg	-
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.004	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	3200	MPa	ISO 527
Stress at break	70	MPa	ISO 527
Strain at break	4.5	%	ISO 527
Flexural modulus, 23°C	3100	MPa	ISO 178
Flexural strength	118	MPa	ISO 178
Charpy notched impact strength, +23°C	1.5	kJ/m <sup>2</sup>	ISO 179/1eA
Rockwell hardness	M 99	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	104	°C	ISO 75-1/-2
Vicat softening temperature, B	115	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	60	E-6/K	ASTM D 696

Optical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Haze	0.5	-	ISO 14782
Luminous transmittance	92	%	ISO 13468-1, -2
<b>Other Standards<sup>[5]</sup></b>			
Index of Refraction	1.49	-	ISO 489

S: These properties are reported by the producer according standards that are different to our defaults.

Other properties	Value	Unit	Test Standard
Density	1190	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.3	%	ASTM D 570

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	90 - 100	°C	-
Pre-drying - Time	4 - 6	h	-
Melt temperature	230 - 260	°C	-
Mold temperature	60 - 90	°C	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

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

**Certifications**

Food contact

**Applications**

Electrical and Electronical, Packaging

**Regional Availability**

North America, Europe, Asia Pacific