

**CRYSTALUX® IH830XT**

PMMA

LX MMA Corp.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	<b>2.4</b>	g/10min	ISO 1133
Temperature	<b>230</b>	°C	-
Load	<b>3.8</b>	kg	-
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.004</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Tensile Modulus	<b>3100</b>	MPa	ISO 527
Stress at break	<b>68</b>	MPa	ISO 527
Strain at break	<b>4</b>	%	ISO 527
Flexural modulus, 23°C	<b>3200</b>	MPa	ISO 178
Flexural strength	<b>115</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>1.5</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Rockwell hardness	<b>M 99</b>	-	ISO 2039-2
<b>Thermal properties</b>			
<b>ISO Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Temp. of deflection under load, 1.80 MPa	<b>104</b>	°C	ISO 75-1/-2
Vicat softening temperature, B	<b>114</b>	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	<b>HB</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5</b>	mm	-
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	<b>60</b>	E-6/K	ASTM D 696
<b>Optical properties</b>			
<b>ISO Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Haze	<b>0.5</b>	-	ISO 14782
Luminous transmittance	<b>92</b>	%	ISO 13468-1, -2
<b>Other Standards<sup>[5]</sup></b>			
Index of Refraction	<b>1.49</b>	-	ISO 489
S: These properties are reported by the producer according standards that are different to our defaults.			
<b>Other properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
Density	<b>1190</b>	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	<b>0.3</b>	%	ASTM D 570
<b>Processing Recommendation Injection Molding</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
Pre-drying - Temperature	<b>90 - 100</b>	°C	-
Pre-drying - Time	<b>4 - 6</b>	h	-
Melt temperature	<b>230 - 260</b>	°C	-
Mold temperature	<b>60 - 90</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

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

**Features**

Light Guiding

**Certifications**

Food contact

**Applications**

Electrical and Electronical, Packaging

**Regional Availability**

North America, Europe, Asia Pacific