CRYSTALUX® HI835HS

PMMA — LX MMA Corp.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**1.1**	g/10min	ISO 1133
Temperature	**230**	°C	-
Load	**3.8**	kg	-
ASTM Data			
Mold Shrinkage, MD	**0.006**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**1300**	MPa	ISO 527
Stress at break	**32**	MPa	ISO 527
Strain at break	**47**	%	ISO 527
Flexural modulus, 23°C	**1400**	MPa	ISO 178
Flexural strength	**52**	MPa	ISO 178
Charpy notched impact strength, +23°C	**6.7**	kJ/m²	ISO 179/1eA
Rockwell hardness	**M 16**	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**80**	°C	ISO 75-1/-2
Vicat softening temperature, B	**87**	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	**70**	E-6/K	ASTM D 696

Optical properties	Value	Unit	Test Standard
ISO Data			
Haze	**1.5**	-	ISO 14782
Luminous transmittance	**92**	%	ISO 13468-1, -2
Other Standards[S]			
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	**1160**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.4**	%	ASTM D 570

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	**60 - 70**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Melt temperature	**210 - 240**	°C	-
Mold temperature	**50 - 70**	°C	-

Characteristics

Processing
Profile Extrusion, Sheet Extrusion

Features
Light Guiding

Special Characteristics
High impact or impact modified, U.V. stabilized or stable to weather, Transparent

Regional Availability
North America, Europe, Asia Pacific