CRYSTALUX® IH830HF

PMMA — LX MMA Corp.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**3.3**	g/10min	ISO 1133
Temperature	**230**	°C	-
Load	**3.8**	kg	-
ASTM Data			
Mold Shrinkage, MD	**0.0065**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**3300**	MPa	ISO 527
Stress at break	**73**	MPa	ISO 527
Strain at break	**5**	%	ISO 527
Flexural modulus, 23°C	**3300**	MPa	ISO 178
Flexural strength	**118**	MPa	ISO 178
Charpy notched impact strength, +23°C	**1.4**	kJ/m²	ISO 179/1eA
Rockwell hardness	**M 99**	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**100**[ann.]	°C	ISO 75-1/-2
Vicat softening temperature, B	**108**	°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	**65**	E-6/K	ASTM D 696

ann.: annealed

Optical properties	Value	Unit	Test Standard
ISO Data			
Haze	**0.5**	-	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	**1190**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.3**	%	ASTM D 570

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 90**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Melt temperature	**220 - 250**	°C	-
Mold temperature	**50 - 70**	°C	-

Characteristics

Processing

Injection Molding

Applications

Automotive

Special Characteristics

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

Regional Availability

North America, Europe, Asia Pacific

Features
Light Guiding