

CRYSTALUX® HI553

PMMA

LX MMA Corp.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	6.4	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			
ISO Data	Value	Unit	Test Standard
Tensile Modulus	2000	MPa	ISO 527
Stress at break	40	MPa	ISO 527
Strain at break	30	%	ISO 527
Flexural modulus, 23°C	2000	MPa	ISO 178
Flexural strength	71	MPa	ISO 178
Charpy notched impact strength, +23°C	3.5	kJ/m ²	ISO 179/1eA
Rockwell hardness	M 62	-	ISO 2039-2
Thermal properties			
ISO Data	Value	Unit	Test Standard
Temp. of deflection under load, 1.80 MPa	87	°C	ISO 75-1/-2
Vicat softening temperature, B	88	°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			
ISO Data	Value	Unit	Test Standard
Haze	1.5	-	ISO 14782
Luminous transmittance	91	%	ISO 13468-1, -2
Other Standards^{S1}			
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	1170	kg/m ³	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

Special Characteristics

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

Features

Light Guiding

Regional Availability

North America, Europe, Asia Pacific