

PMMA Impact Resistant Grade HI835HS

Description

High impact resistance grade
High light transmission
Good mechanical strength, surface hardness, weather resistance
Free colorability due to crystal clarity

Application

Home appliance cover housing & front door, Multi-wall sheet, Corrugated sheet
Edgebands for furniture, Profile for lighting, Bath tubs

Table

PROPERTY	CONDITION	UNIT	METHOD	VALUE
OPTICAL PROPERTIES				
Refractive Index	nd	-	ISO 489	1.49
Light Transmittance	3mm	%	ISO 13468-1	92
Haze	3mm	%	ISO 14782	<1.5
THERMAL PROPERTIES				
Melt Flow Index	230°C/3.8kg	g/10min	ISO 1133	1.1
VICAT Softening Point	B/50	°C	ISO 306	87
Heat Deflection Temperature	1.8MPa	°C	ISO 75	80
Coefficient of Linear Expansion	-	1/°C	ASTM D696	7X10 ⁻⁵
MECHANICAL PROPERTIES				
Charpy Impact Strength	notched	kJ/m ²	ISO 179	6.7
Rockwell Hardness	M scale	-	ISO 2039-2	16
Tensile Strength at Break	5mm/min	MPa	ISO 527	32
Tensile Strain at Break	5mm/min	%	ISO 527	47
Tensile Modulus	1mm/min	GPa	ISO 527	1.3
Flexural Strength	2mm/min	MPa	ISO 178	52
Flexural Modulus	2mm/min	GPa	ISO 178	1.4
GENERAL PROPERTIES				
Density	-	g/cm ³	ISO 1183	1.16
Mold Shrinkage	-	%	ASTM D955	0.4-0.8
Water Absorption	24hr	%	ASTM D570	0.4
Flammability UL94	1.5mm	Class	IEC 60695-11-10	HB
RECOMMENDED PROCESSING CONDITIONS				
Predrying Temperature	-	°C	-	60-70
Predrying Time in Desiccant-Type Drier	-	hr	-	4-6
Melt Temperature	-	°C	-	210-240
Mold Temperature	-	°C	-	50-70

REMARKS : The listed values should be used for reference purpose only.