

Plexiglas® 7H

Polymethyl Methacrylate Acrylic
Evonik Industries AG

Message:

Product Profile:
PLEXIGLAS® 7H is an amorphous thermoplastic molding compound (PMMA).
Typical properties of PLEXIGLAS® molding compounds are:
good flow
high mechanical strength, surface hardness and mar resistance
high light transmission
excellent weather resistance
free colorability due to crystal clarity.
Special properties of PLEXIGLAS® 7H are:
very good mechanical properties
high heat deflection temperature
high melt strength
AMECA listing.
Application:
Used for extruding optical and technical profiles and sheets.
Examples:
sheets, tubes, multi-skin sheets, coextrusion of window profiles and similar applications

General Information	
UL YellowCard	E65495-247805
Features	Good Colorability
	Good Flow
	Good Weather Resistance
	High Hardness
	High Strength
Uses	Profiles
	Sheet
	Tubing
	Windows & Doors
Forms	Pellets
Processing Method	Coextrusion
	Extrusion
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)
	Isochronous Stress vs. Strain (ISO 11403-1)
	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)
	Shear Modulus vs. Temperature (ISO 11403-1)
	Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	1.40	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1
Tensile Stress (Break)	76.0	MPa	ISO 527-2/5
Tensile Strain (Break)	5.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	20	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A
Glass Transition Temperature	112	°C	ISO 11357-2
Vicat Softening Temperature	103	°C	ISO 306/B50
CLTE - Flow (0 to 50°C)	8.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Fire Rating	B2		DIN 4102
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ISO 489
Transmittance ¹	92.0	%	ISO 13468-2
Haze	< 0.50	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Drying Temperature	< 93.0	°C	
Drying Time	2.0 to 3.0	hr	
Melt Temperature	220 to 260	°C	
Die Temperature	220 to 260	°C	
NOTE			
1.	D65		

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