

Plexiglas® 7M

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

Product Profile:

PLEXIGLAS® 7M is based on polymethyl methacrylate (PMMA).

Besides showing the familiar properties of PLEXIGLAS® 7H molding compounds, such as excellent light transmission and brilliance

excellent weatherability

high mechanical strength, surface hardness and abrasion resistance.

PLEXIGLAS® 7M is special in that it

better flowing behavior,

AMECA listing.

Application:

PLEXIGLAS® 7M is particularly suitable for extruding profiles and panels for use in lighting engineering.

Examples:

lighting fixtures, displays and similar extruded items for technical purposes.

General Information			
UL YellowCard	E65495-247806		
Features	Good Weather Resistance		
	High Hardness		
	High Strength		
	Light Stabilized		
Uses	Displays		
	Lighting Fixtures		
Forms	Pellets		
Processing Method	Extrusion		
Multi-Point Data	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)	2.90	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1
Tensile Stress (Break)	69.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	%	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
Glass Transition Temperature	108	°C	ISO 11357-2
Vicat Softening Temperature	104	°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
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ISO 489
Transmittance ¹	92.0	%	ISO 13468-2
Extrusion	Nominal Value	Unit	
Drying Temperature	< 94.0	°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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