

PLEXIGLAS® 7H

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

Processing:

PLEXIGLAS® 7H can be processed on extruders with 3-zone general purpose screws for engineering thermoplastics.

Physical Form / Packaging:

PLEXIGLAS® molding compounds are supplied as pellets of uniform size, packaged in 25kg polyethylene bags or in 500kg boxes with PE lining; other packaging on request.

For more information:

For more information, e.g. Charts or lists of resistance are in the database CAMPUS® (<http://www.campusplastics.com>) free of charge.

Properties:

	Parameter	Unit	Standard	PLEXIGLAS® 7H
Mechanical Properties				
Tensile Modulus	1 mm/min	MPa	ISO 527	3200
Stress @ Break	5 mm/min	MPa	ISO 527	76
Strain @ Break	5 mm/min	%	ISO 527	5.5
Charpy Impact Strength	23°C	kJ/m ²	ISO 179/1eU	20
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	103
Glass Transition Temperature		°C	ISO 11357	112
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	100
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	95
Coeff. of Linear Therm. Expansion	0 – 50°C	E-5 /°K	ISO 11359	8
Classes of construction product			DIN EN 13501-1	E
Flammability UL 94	1.5 mm	Class	IEC 60695-11-10	HB
Rheological Properties				
Melt Volume Rate, MVR	230°C / 3.8kg	cm ³ /10min	ISO 1133	1.4
Optical Properties				
Luminous transmittance	d=3 mm	%	ISO 13468-2	92
Haze			ASTM D1003	< 0.5
Refractive Index	589nm/23°C		ISO 489	1.49
Other Properties				
Density		g/cm ³	ISO 1183	1.19
Recommended Processing Conditions				
Predrying Temperature		°C		max. 93
Predrying Time in Desiccant-Type Drier		h		2 – 3
Melt Temperature		°C		220 – 260
Die Temperature (Extrusion)		°C		220 – 260

All listed technical data are typical values intended for your guidance. They are given without obligation and do not constitute a materials specification.

Certified to ISO 9001:2015, ISO 14001:2015 and IATF 16949:2016.

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