Plexiglas® 8H

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

Product Profile:
PLEXIGLAS® 8H 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
very good weather resistance
free colorability due to crystal clarity.
Special properties of PLEXIGLAS® 8H molding compound are:
optimum mechanical properties
increased 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® 8H 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.

General Information	
UL YellowCard	E65495-247805
Features	Good Colorability Good Flow Good Melt Strength Good Weather Resistance High ESCR (Stress Crack Resist.) High Hardness
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/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	0.800	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3300	MPa	ISO 527-2/1
Tensile Stress (Break)	78.0	MPa	ISO 527-2/5
Tensile Strain (Break)	6.5	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	20	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	108	°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
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	< 98.0	°C	
Drying Time	2.0 to 3.0	hr	
Melt Temperature	220 to 260	°C	
Die Temperature	220 to 260	°C	
NOTE			
1.	D65		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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WECHAT