

PRODUCT INFORMATION

PLEXIGLAS® Softlight 7H df21

Product Profile:

PLEXIGLAS® Softlight 7H df21, based on PLEXIGLAS® 7H, is characterized by diffuse scattering of light.

Typical properties of PLEXIGLAS® molding compound are

- good flow
- high mechanical strength, surface hardness and mar resistance
- very good weather resistance.

Special properties of PLEXIGLAS® Softlight 7H df21 are

- very good lightdiffusion combined with excellent light transmittance
- matte surfaces can be obtained by varying the extrusion parameters.

Application:

Used for extruding profiles and sheets for lighting engineering applications

Examples:

Luminaire covers, displays, projection screens and similar lighting applications

Processing:

PLEXIGLAS® Softlight 7H df21 can be processed on extruders with 3-zone general purpose screws for engineering thermoplastics.

The matte finish of profile surfaces depends very much on machine design (calibrating unit, polishing rolls) and cooling conditions. It can be enhanced by controlled temperature reduction.

Physical Form / Packaging:

PLEXIGLAS® Softlight df molding compounds are supplied as pellets of uniform size, packaged in 25kg polyethylene bags; other packaging on request.

Properties:

	Parameter	Unit	Standard	PLEXIGLAS® Softlight 7H df21
Mechanical Properties				
Tensile Modulus	1 mm/min	MPa	ISO 527	3300
Stress @ Break	5 mm/min	MPa	ISO 527	70
Strain @ Break	5 mm/min	%	ISO 527	5,5
Charpy Impact Strength	23°C	kJ/m²	ISO 179/1eU	20
Charpy Notched Impact Strength	23°C	kJ/m²	ISO 179/1	1,8
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	104
Glass Transition Temperature		°C	ISO 11357	110
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	101
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	97
Coeff. of Linear Therm. Expansion	0 - 50°C	E-5 /°K	ISO 11359	6.3
Classes of construction product			DIN EN 13501-1	E
Rheological Properties				
Melt Volume Rate, MVR	230°C / 3,8kg	cm³/10min	ISO 1133	1,1
Optical Properties				
	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	87
Half-Value Angle		°	DIN 5036	5,4
Other Properties				
Density		g/cm³	ISO 1183	1.19
Recommended Processing Conditions				
Predrying Temperature		°C		max. 95
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.