

## PRODUCT INFORMATION

# PLEXIGLAS® Softlight 8N df22

### Product Profile:

PLEXIGLAS® Softlight 8N df22, based on PLEXIGLAS® 8N, 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 8N df22 are

- very good lightdiffusion combined with excellent light transmittance.

### Application:

Used for injection molding items for lighting engineering applications

### Examples:

luminaire covers, projection screens and similar applications

### Processing:

PLEXIGLAS® Softlight 8N df22 can be processed on injection molding machines with 3-zone general purpose screws for engineering thermoplastics.

### Physical Form / Packaging:

PLEXIGLAS® Softlight df molding compounds are supplied as pellets of uniform size, packaged in 25kg polyethylene bags; 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® Softlight 8N df22
<b>Mechanical Properties</b>				
Tensile Modulus	1 mm/min	MPa	ISO 527	3300
Stress @ Break	5 mm/min	MPa	ISO 527	67
Strain @ Break	5 mm/min	%	ISO 527	3,5
Charpy Impact Strength	23°C	kJ/m <sup>2</sup>	ISO 179/1eU	18
Charpy Notched Impact Strength	23°C	kJ/m <sup>2</sup>	ISO 179/1	1,8
<b>Thermal Properties</b>				
Vicat Softening Temperature	B / 50	°C	ISO 306	109
Glass Transition Temperature		°C	ISO 11357	110
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	103
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	98
Coeff. of Linear Therm. Expansion	0 - 50°C	E-5 /°K	ISO 11359	6.3
Classes of construction product			DIN EN 13501-1	E
Glow Wire Ignition Temperature		°C	IEC 60695-2	700
<b>Rheological Properties</b>				
Melt Volume Rate, MVR	230°C / 3,8kg	cm <sup>3</sup> /10min	ISO 1133	2,4
<b>Optical Properties</b>				
	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	86
Half-Value Angle		°	DIN 5036	12,5
<b>Other Properties</b>				
Density		g/cm <sup>3</sup>	ISO 1183	1.19
<b>Recommended Processing Conditions</b>				
Predrying Temperature		°C		max. 95
Predrying Time in Desiccant-Type Drier		h		2 - 3
Melt Temperature		°C		220 - 260
Mold Temperature (Injection Molding)		°C		60 - 90

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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The logo for Röhm, featuring the word "RÖHM" in a bold, black, sans-serif font. The letter "R" is stylized with a vertical bar on its left side. The "O" has a small circle above it, and the "M" has a small circle above its right vertical bar.