

## PRODUCT INFORMATION

# PLEXIGLAS® Softlight 8N df20

### Product Profile:

PLEXIGLAS® Softlight 8N df20 based on PLEXIGLAS® 8N are characterized by diffuse scattering of light.

Besides showing the familiar properties of standard PLEXIGLAS® molding compound, such as

- excellent weatherability,
- high surface hardness and mar resistance,

PLEXIGLAS® Softlight 8N df20 is special in that they combine

- good diffusing power with excellent light transmittance.

### Application:

Used for injection molding items for lighting engineering applications

### Examples:

displays, fiber optics, projection screens, lighting fixtures and similar applications in lighting engineering.

### Processing:

PLEXIGLAS® Softlight 8N df20 can be processed on injection molding machines with 3-zone general purpose screws for thermoplastics.

### Physical Form / Packaging:

PLEXIGLAS® Softlight 8N df20 is supplied as pellets of uniform size, packaged in two-ply, 25kg polyethylene bags; other packaging on request.

**Properties:**

	Parameter	Unit	Standard	PLEXIGLAS® Softlight 8N df20
<b>Mechanical Properties</b>				
Tensile Modulus	1 mm/min	MPa	ISO 527	3300
Stress @ Break	5 mm/min	MPa	ISO 527	74
Strain @ Break	5 mm/min	%	ISO 527	5
Charpy Impact Strength	23°C	kJ/m <sup>2</sup>	ISO 179/1eU	19
<b>Thermal Properties</b>				
Vicat Softening Temperature	B / 50	°C	ISO 306	108
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
<b>Rheological Properties</b>				
Melt Volume Rate, MVR	230°C / 3,8kg	cm <sup>3</sup> /10min	ISO 1133	2,5
<b>Optical Properties</b>				
Luminous transmittance	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	88
Half-Value Angle		°	DIN 5036	1,6
<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.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer.

Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Röhm is a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the ACRYLITE® trademark in the Americas.

® = registered trademark

PLEXIGLAS and PLEXIMID are registered trademarks of Röhm GmbH.

Röhm GmbH • Darmstadt • Germany  
plexiglas.polymers@roehm.com  
www.plexiglas-polymers.com

Ref. No.: MC500 A1142

