

## PLEXIGLAS® Satinice df23 8N

### Product Profile:

PLEXIGLAS® Satinice df23 8N, 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® Satinice df23 8N are

- excellent light diffusion 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® Satinice df23 8N can be processed on injection molding machines with 3-zone general purpose screws for engineering thermoplastics.

### Physical Form / Packaging:

PLEXIGLAS® Satinice 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:**

	<b>Parameter</b>	<b>Unit</b>	<b>Standard</b>	<b>PLEXIGLAS® Satinice df23 8N</b>
<b>Mechanical Properties</b>				
Tensile Modulus	1 mm/min	MPa	ISO 527	3300
Stress @ Break	5 mm/min	MPa	ISO 527	65
Strain @ Break	5 mm/min	%	ISO 527	2.5
Charpy Impact Strength	23°C	kJ/m <sup>2</sup>	ISO 179/1eU	16
Charpy Notched Impact Strength	23°C	kJ/m <sup>2</sup>	ISO 179/1eA	1.8
<b>Thermal Properties</b>				
Vicat Softening Temperature	B / 50	°C	ISO 306	109
Glass Transition Temperature		°C	ISO 11357	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
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	2.1
<b>Optical Properties</b>				
Luminous transmittance	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	81
Half-Value Angle		°	DIN 5036	21
<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.

CAMPUS is a registered trademark of Chemie Wirtschaftsförderungs-GmbH, Frankfurt / M.

Röhm GmbH • Dolivostraße 17 • 64293 Darmstadt  
plexiglas.polymers@roehm.com  
www.plexiglas-polymers.de  
www.roehm.com

Ref. No.: MC122-E3 A1142 Date: 2019-08-27