

PLEXIGLAS® Satinice df23 7N

Product Profile:

PLEXIGLAS® Satinice df23 7N, based on PLEXIGLAS® 7N, 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 7N are

- excellent lightdiffusion combined with excellent light transmission.

Application:

Used for injection molding items for lighting engineering applications

Examples:

applications that call for good light diffusion combined with optimum transmission

Processing:

PLEXIGLAS® Satinice df23 7N 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.

Properties:

	Parameter	Unit	Standard	PLEXIGLAS® Satinice df23 7N
Mechanical Properties				
Tensile Modulus	1 mm/min	MPa	ISO 527	3400
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 ²	ISO 179/1eU	17
Charpy Notched Impact Strength	23°C	kJ/m ²	ISO 179/1	1.8
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	105
Glass Transition Temperature		°C	IEC 10006	108
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
Fire Rating			DIN 4102	B2
Glow Wire Ignition Temperature		°C	IEC 60695-2	700
Rheological Properties				
Melt Volume Rate, MVR	230°C / 3.8kg	cm ³ /10min	ISO 1133	4.1
Optical Properties				
Luminous transmittance	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	81
Half-Value Angle		°	DIN 5036	21
Other Properties				
Density		g/cm ³	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.

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.

The Business Unit Performance Polymers of Evonik is a worldwide manufacturer of PMMA molding compounds sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian Continent and under the trademark ACRYLITE® in the Americas.

® = registered trademark

PLEXIGLAS and PLEXIMID are registered trademarks of Evonik Röhm GmbH, Darmstadt, Germany

Evonik Röhm GmbH Kirschenallee 64293 Darmstadt
 Telefon +49 6151 18-4711 Telefax +49 6151 18-3177
 www.plexiglas-polymers.com

Ref. No.: MC124-E v0160 Date: 2011-04-04