

PLEXIGLAS® Satinice df33 7H

Product Profile:

PLEXIGLAS® Satinice df33 7H, based on PLEXIGLAS® 7H, is characterized by diffuse scattering of light.

Typical properties of impact modified PLEXIGLAS® molding compound are

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

Extruded parts from PLEXIGLAS® Satinice df33 7H are characterized by the following special properties:

- excellent light diffusion combined with excellent light transmission
- semi-gloss surfaces
- touch and fingerprint resistant.

Application:

Used for (Co-) extruding profiles and sheets for the construction, furniture and automotive industry.

Examples:

applications that call for light diffusion combined with optimum transmission and velvet matt surface appearance is desired.

Processing:

PLEXIGLAS® Satinice df33 7H 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.

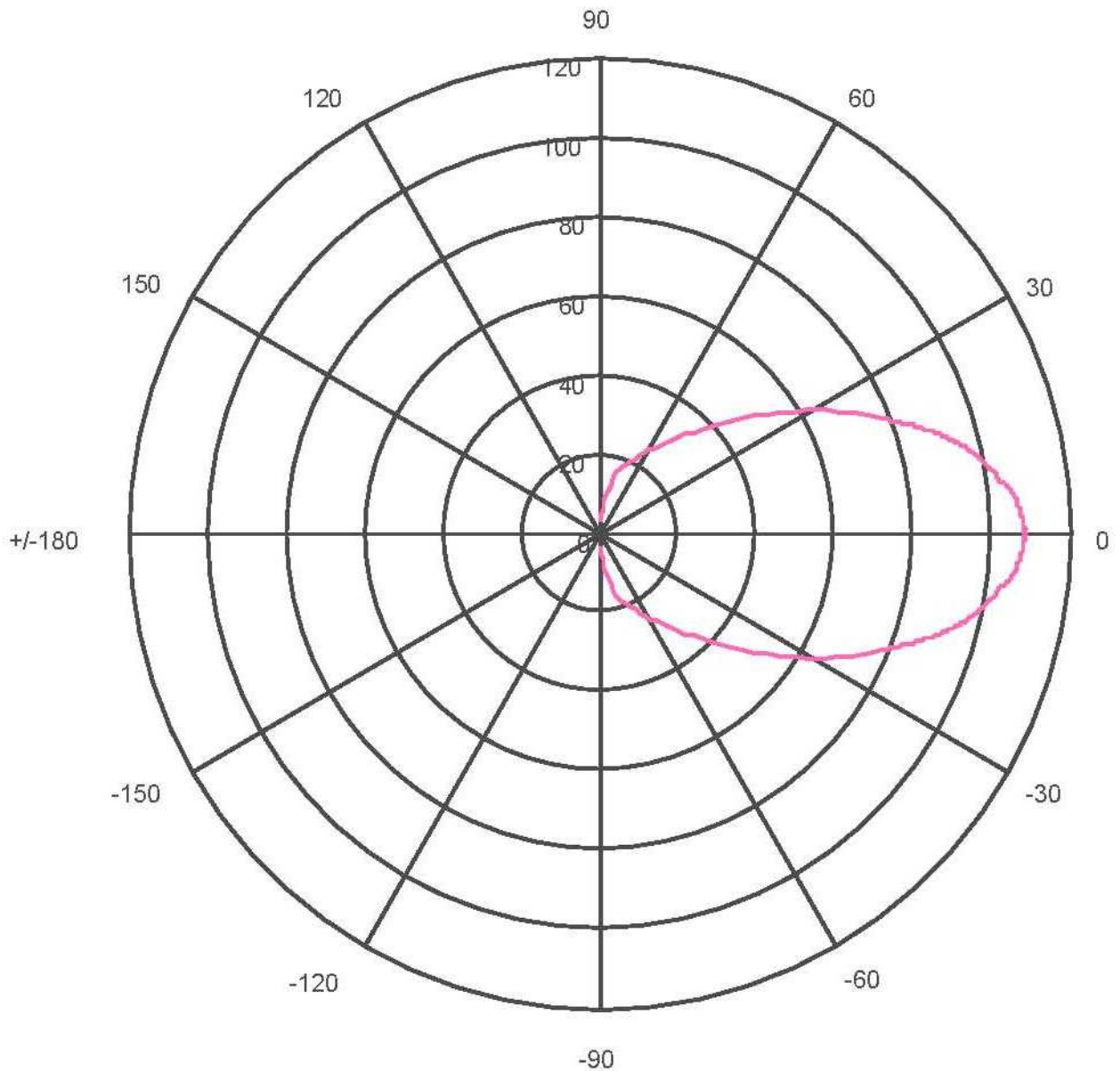
Physical Form / Packaging:

PLEXIGLAS® Satinice df33 7H is supplied as pellets of uniform size, packaged in 25kg polyethylene bags; other packaging on request.

Properties:

	Parameter	Unit	Standard	PLEXIGLAS® Satinice df33 7H
Mechanical Properties				
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	4
Charpy Impact Strength	23°C	kJ/m ²	ISO 179/1eU	17
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	102
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	101
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	99
Coeff. of Linear Therm. Expansion	0 – 50°C	E-5 /°K	ISO 11359	6.6
Glow Wire Ignition Temperature		°C	IEC 60695-2	700
Rheological Properties				
Melt Volume Rate, MVR	230°C / 3.8kg	cm ³ /10min	ISO 1133	0.9
Optical Properties				
	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	69
Half-Value Angle		°	DIN 5036	34
Scattering power			DIN 5036	0,47
Other Properties				
Density		g/cm ³	ISO 1183	1.18
Gloss R60, f(polishing roll temperatur)	90 °C		ISO 2813	9
Gloss R60, f(polishing roll temperatur)	105 °C		ISO 2813	16
Recommended Processing Conditions				
Predrying Temperature		°C		max. 90
Predrying Time in Desiccant-Type Drier		h		2 – 3
Melt Temperature		°C		230 – 260
Die Temperature (Extrusion)		°C		230 – 260

All listed technical data are typical values intended for your guidance. They are given without obligation and do not constitute a materials specification.



Luminance as a function of measuring angle of PLEXIGLAS® Satinice df33 7H, 3 mm.

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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.

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