Product Information

PLEXIGLAS® Satinice df20 8N

Product Profile:

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

- good diffusing power with excellent light transmission.

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

Physical Form / Packaging:

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

Properties:

	Parameter	Unit	Standard	PLEXIGLAS® Satinice df20 8N
Mechanical Properties				
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/m²	ISO 179/1eU	19
Thermal Properties				
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
Fire Rating			DIN 4102	B2
Rheological Properties				
Melt Volume Rate, MVR	230°C / 3.8kg	cm³/10min	ISO 1133	2.5
Optical Properties	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	88
Half-Value Angle		°	DIN 5036	1.6
Other Properties				
Density		g/cm³	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
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.