

PRODUCT INFORMATION

PLEXIGLAS® Satinice df21 8N

Product Profile:

PLEXIGLAS® Satinice df21 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 df21 8N are

- good lightdiffusion combined with excellent light transmittance.

Application:

Used for injection molding items for lighting engineering applications

Examples:

displays, backlight units

Processing:

PLEXIGLAS® Satinice df21 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:

| | Parameter | Unit | Standard | PLEXIGLAS® Satinice df21 8N |
|--|---------------|------------------------|----------------|-----------------------------|
| Mechanical Properties | | | | |
| Tensile Modulus | 1 mm/min | MPa | ISO 527 | 3300 |
| Stress @ Break | 5 mm/min | MPa | ISO 527 | 71 |
| Strain @ Break | 5 mm/min | % | ISO 527 | 4.5 |
| Charpy Impact Strength | 23°C | kJ/m ² | ISO 179/1eU | 18 |
| Charpy Notched Impact Strength | 23°C | kJ/m ² | ISO 179/1eA | 1.8 |
| Thermal Properties | | | | |
| Vicat Softening Temperature | B / 50 | °C | ISO 306 | 109 |
| Glass Transition Temperature | | °C | ISO 11357 | 111 |
| 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 |
| Rheological Properties | | | | |
| Melt Volume Rate, MVR | 230°C / 3.8kg | cm ³ /10min | ISO 1133 | 2.5 |
| Optical Properties | | | | |
| Luminous transmittance | d=3 mm | % | ISO 13468-2 | 87 |
| Half-Value Angle | | ° | DIN 5036 | 5.4 |
| 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 |
| 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.

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