

## PLEXIGLAS® Satinice df22 zk6BR

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### Product Profile:

PLEXIGLAS® Satinice df22 zk6BR, based on PLEXIGLAS® Resist zk6BR, is an impact modified molding compound characterized by diffuse scattering of light.

Typical properties of impact modified PLEXIGLAS® molding compound are

- high break resistance and impact strength
- improved resistance to stress cracking
- good weather resistance
- high surface hardness and mar resistance
- the pleasant feel and sound of the moldings.

PLEXIGLAS® Satinice df22 zk6BR is characterized by the following special properties:

- very good lightdiffusion combined with excellent light transmission
- matte surfaces can be obtained by varying the extrusion parameters.

### Application:

Used for extruding profiles and sheets, but also for injection molding items for lighting engineering applications

### Examples:

applications that call for light diffusion combined with optimum transmission

### Processing:

PLEXIGLAS® Satinice df22 zk6BR 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 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 df22 zk6BR |
|--|---------------|------------------------|----------------|--------------------------------|
| <b>Mechanical Properties</b>             |               |                        |                |                                |
| Tensile Modulus                          | 1 mm/min      | MPa                    | ISO 527        | 1800                           |
| Yield Stress                             | 50 mm/min     | MPa                    | ISO 527        | 45                             |
| Yield Strain                             | 50 mm/min     | %                      | ISO 527        | 5                              |
| Nominal Strain @ Break                   |               | %                      | ISO 527        | 40                             |
| Charpy Impact Strength                   | 23°C          | kJ/m <sup>2</sup>      | ISO 179/1eU    | 54                             |
| Charpy Notched Impact Strength           | 23°C          | kJ/m <sup>2</sup>      | ISO 179/1      | 6.5                            |
| <b>Thermal Properties</b>                |               |                        |                |                                |
| Vicat Softening Temperature              | B / 50        | °C                     | ISO 306        | 98                             |
| Glass Transition Temperature             |               | °C                     | ISO 11357      | 109                            |
| Temp. of Deflection under Load           | 0.45 MPa      | °C                     | ISO 75         | 99                             |
| Temp. of Deflection under Load           | 1.8 MPa       | °C                     | ISO 75         | 93                             |
| Coeff. of Linear Therm. Expansion        | 0 – 50°C      | E-5 /°K                | ISO 11359      | 9                              |
| 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       | 1.4                            |
| <b>Optical Properties</b>                |               |                        |                |                                |
| Luminous transmittance                   | d=3 mm        |                        |                |                                |
| Luminous transmittance                   | D65           | %                      | ISO 13468-2    | 86                             |
| Half-Value Angle                         |               | °                      | DIN 5036       | 12.5                           |
| <b>Other Properties</b>                  |               |                        |                |                                |
| Density                                  |               | g/cm <sup>3</sup>      | ISO 1183       | 1.15                           |
| <b>Recommended Processing Conditions</b> |               |                        |                |                                |
| Predrying Temperature                    |               | °C                     |                | max. 85                        |
| Predrying Time in Desiccant-Type Drier   |               | h                      |                | 2 – 3                          |
| Melt Temperature                         |               | °C                     |                | 230 – 260                      |
| Die Temperature (Extrusion)              |               | °C                     |                | ca. 260                        |

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

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Certified to ISO 9001:2015, ISO 14001:2015 and IATF 16949:2016.

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Evonik Performance Materials GmbH Kirschenallee 64293 Darmstadt  
plexiglas.polymers@evonik.com  
www.plexiglas-polymers.com

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