

**PRODUCT INFORMATION**

# PLEXIGLAS® Softlight zk6BR df22

**Product Profile:**

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

- very good lightdiffusion combined with excellent light transmittance
- 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® Softlight zk6BR df22 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® Softlight 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® Softlight zk6BR df22
<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>				
	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.

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

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