

PRODUCT INFORMATION

ACRYLITE® Softlight zk6BR df23

Product Profile:

ACRYLITE® Softlight zk6BR df23, based on ACRYLITE® Resist zk6BR, is an impact modified molding compound characterized by diffuse scattering of light.

Typical properties of impact modified ACRYLITE® 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.

ACRYLITE® Softlight zk6BR df23 is characterized by the following special properties:

- excellent 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:

ACRYLITE® Softlight zk6BR df23 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

Physical Form / Packaging:

ACRYLITE® Softlight df molding compounds are supplied as pellets of uniform size, packaged in 25kg polyethylene bags; other packaging on request.

Properties:

	Parameter	Unit	Standard	ACRYLITE® Softlight zk6BR df23
Mechanical Properties				
Tensile Modulus	1 mm/min	MPa	ISO 527	1900
Yield Stress	50 mm/min	MPa	ISO 527	46
Yield Strain	50 mm/min	%	ISO 527	5
Nominal Strain @ Break		%	ISO 527	36
Charpy Impact Strength	23°C	kJ/m ²	ISO 179/1eU	50
Charpy Notched Impact Strength	23°C	kJ/m ²	ISO 179/1	6
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	99
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
Rheological Properties				
Melt Volume Rate, MVR	230°C / 3,8kg	cm ³ /10min	ISO 1133	1,3
Optical Properties				
	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	81
Half-Value Angle		°	DIN 5036	21
Other Properties				
Density		g/cm ³	ISO 1183	1.15
Recommended Processing Conditions				
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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