

PRODUCT INFORMATION

PLEXIGLAS® Resist zk6BR

Product Profile:

PLEXIGLAS® Resist zk6BR is an amorphous, impact-modified thermoplastic molding compound (PMMA-I).

Typical properties of impact-modified PLEXIGLAS® molding compounds are:

- high weather resistance
- excellent transmission and clarity
- brilliant appearance
- the pleasant feel and sound of the moldings.

PLEXIGLAS® Resist zk6BR is characterized by the following special properties:

- maximum break resistance and impact strength,
- improved resistance to stress cracking
- balanced property profile
- AMECA listing.

Application:

Used for extruding and coextruding sheets and profiles as well as for injection molding

Examples:

extruded and injection-molded luminaire covers, extruded hollow profiles, writing utensils such as stencils and fountain pens, appliance housings, coextruded profiles for window frames, gutters, downspouts, and housewares such as cutlery handles, bowls, cookie jars.

Processing:

PLEXIGLAS® Resist zk6BR can be processed on machines with 3-zone general purpose screws for engineering thermoplastics.

Physical Form / Packaging:

PLEXIGLAS® Resist zk molding compounds are supplied as pellets of uniform size in 25kg polyethylene bags or in 500kg boxes with PE lining; 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® Resist zk6BR
Mechanical Properties				
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	54
Charpy Impact Strength	23°C	kJ/m ²	ISO 179/1eU	80
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	95
Glass Transition Temperature		°C	ISO 11357	109
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	93
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	88
Coeff. of Linear Therm. Expansion	0 - 50°C	E-5 /°K	ISO 11359	11
Classes of construction product			DIN EN 13501-1	E
Flammability UL 94	1.5 mm	Class	IEC 60695-11-10	HB
Rheological Properties				
Melt Volume Rate, MVR	230°C / 3.8kg	cm ³ /10min	ISO 1133	1.6
Optical Properties				
Luminous transmittance	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	91
Haze			ASTM D1003	< 2
Refractive Index	589nm/23°C		ISO 489	1.49
Other Properties				
Density		g/cm ³	ISO 1183	1.16
Water Absorption in Water	saturation, 23°C	%	ISO 62	1.8
Humidity Absorption	23°C / 50%	%	ISO 62	0.5
Recommended Processing Conditions				
Predrying Temperature		°C		max. 85
Predrying Time in Desiccant-Type Drier		h		2 - 3
Melt Temperature		°C		220 - 260
Mold Temperature (Injection Molding)		°C		50 - 70

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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