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PRODUCT INFORMATION

PLEXIGLAS® Resist zk4BR

Product Profile:

PLEXIGLAS® Resist zk4BR is an amorphous, impact-modified thermoplastic molding compound (PMMA-I).

Typical properties of impact-modified PLEXIGLAS® molding compounds are

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

PLEXIGLAS® Resist zk4BR is characterized by the following special properties:

- · high 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 zk4BR 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.

Properties:

Yield Stress 50 r Yield Strain 50 r Nominal Strain @ Break	nm/min nm/min nm/min 23°C	MPa MPa % % kJ/m²	ISO 527 ISO 527 ISO 527 ISO 527 ISO 179/1eU	2800 71 4.5 19 25
Yield Stress 50 r Yield Strain 50 r Nominal Strain @ Break	nm/min nm/min 23°C	MPa % % kJ/m²	ISO 527 ISO 527 ISO 527 ISO 179/1eU	71 4.5 19
Yield Strain 50 m Nominal Strain @ Break	nm/min 23°C	% % kJ/m²	ISO 527 ISO 527 ISO 179/1eU	4.5
Nominal Strain @ Break	23°C	% kJ/m²	ISO 527 ISO 179/1eU	19
		kJ/m²	ISO 179/1eU	
Charpy Impact Strength				25
	3 / 50	°C	ISO 306	
Thermal Properties	3 / 50	°C	ISO 306	Ì
Vicat Softening Temperature E			130 300	102
Glass Transition Temperature		°C	ISO 11357	108
Temp. of Deflection under Load 0.4	5 MPa	°C	ISO 75	99
Temp. of Deflection under Load 1.4	В МРа	°C	ISO 75	95
Coeff. of Linear Therm. Expansion 0	- 50°C	E-5 /°K	ISO 11359	8
Classes of construction product			DIN EN 13501-1	E
Flammability UL 94	5 mm	Class	IEC 60695-11-10	НВ
Rheological Properties				
Melt Volume Rate, MVR 230°	C / 3.8kg	cm ³ /10min	ISO 1133	4.5
Optical Properties d=	:3 mm			
Luminous transmittance	D65	%	ISO 13468-2	92
Haze			ASTM D1003	< 1.5
Refractive Index 589r	m/23°C		ISO 489	1.49
Other Properties				
Density		g/cm³	ISO 1183	1.18
Water Absorption in Water satura	tion, 23°C	%	ISO 62	2
Humidity Absorption 23°	C / 50%	%	ISO 62	0.6
Recommended Processing Conditions				
Predrying Temperature		°C		max. 90
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.

