

PLEXIGLAS® Resist zk6HC

Product Profile:

PLEXIGLAS® Resist zk6HC is an amorphous, impact-modified thermoplastic molding compounds (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 zk6HC is characterized by the following special properties:

- excellent break resistance and impact strength
- best resistance to stress cracking of all impact-modified PLEXIGLAS® molding compounds.

Application:

Used for extruding and coextruding sheets and profiles

Examples:

extruded/coextruded sheets and profiles for automotive bodies and the sanitaryware sector (bathtubs and shower trays) or crystal-clear luminaire covers for industrial plants that come into contact with aggressive media.

Processing:

PLEXIGLAS® Resist zk6HC 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:

	Parameter	Unit	Standard	PLEXIGLAS® Resist zk6HC
Mechanical Properties				
Tensile Modulus	1 mm/min	MPa	ISO 527	2000
Yield Stress	50 mm/min	MPa	ISO 527	47
Yield Strain	50 mm/min	%	ISO 527	5.5
Nominal Strain @ Break		%	ISO 527	48
Charpy Impact Strength	23°C	kJ/m ²	ISO 179/1eU	80
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	97
Coeff. of Linear Therm. Expansion	0 – 50°C	E-5 /°K	ISO 11359	11
Fire Rating			DIN 4102	B2
Flammability UL 94	1.6 mm	Class	IEC 707	HB
Rheological Properties				
Melt Volume Rate, MVR	230°C / 3.8kg	cm ³ /10min	ISO 1133	0.4
Optical Properties				
Luminous transmittance	d=3 mm			
	D65	%	ISO 13468-2	91
Refractive Index			ISO 489	1.49
Other Properties				
Density		g/cm ³	ISO 1183	1.16
Water Absorption in Water		%	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
Die Temperature (Extrusion)		°C		220 – 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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The Business Unit Performance Polymers of Evonik is a worldwide manufacturer of PMMA molding compounds sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian Continent and under the trademark ACRYLITE® in the Americas.

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