

**PRODUCT INFORMATION**

# 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.

**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 zk6HC
<b>Mechanical Properties</b>				
Tensile Modulus	1 mm/min	MPa	ISO 527	1700
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 <sup>2</sup>	ISO 179/1eU	80
<b>Thermal Properties</b>				
Vicat Softening Temperature	B / 50	°C	ISO 306	97
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
<b>Rheological Properties</b>				
Melt Volume Rate, MVR	230°C / 3.8kg	cm <sup>3</sup> /10min	ISO 1133	0.4
<b>Optical Properties</b>				
Luminous transmittance	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	91
Refractive Index	589nm/23°C		ISO 489	1.49
<b>Other Properties</b>				
Density		g/cm <sup>3</sup>	ISO 1183	1.16
Water Absorption in Water	saturation, 23°C	%	ISO 62	1.8
Humidity Absorption	23°C / 50%	%	ISO 62	0.5
<b>Recommended Processing Conditions</b>				
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.

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

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