

## PLEXIGLAS® Resist zk30

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### Product Profile:

PLEXIGLAS® Resist zk30 is an amorphous, impact-modified thermoplastic molding compound (PMMA-I).

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

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

PLEXIGLAS® Resist zk30 is characterized by the following special properties:

- good break resistance and impact strength
- improved resistance to stress cracking
- certified dishwasher resistance
- AMECA listing.

### Application:

Used for injection molding. Profile extrusion or coextrusion are also possible.

### Examples:

lighting fixtures, writing and drawing utensils, domestic appliances and sanitaryware

### Processing:

PLEXIGLAS® Resist zk30 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, packaged in 25kg polyethylene bags or 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 zk30
<b>Mechanical Properties</b>				
Tensile Modulus	1 mm/min	MPa	ISO 527	2000
Yield Stress	50 mm/min	MPa	ISO 527	51
Yield Strain	50 mm/min	%	ISO 527	4.5
Nominal Strain @ Break		%	ISO 527	27
Charpy Impact Strength	23°C	kJ/m <sup>2</sup>	ISO 179/1eU	55
<b>Thermal Properties</b>				
Vicat Softening Temperature	B / 50	°C	ISO 306	98
Glass Transition Temperature		°C	ISO 11357	114
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	96
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	91
Coeff. of Linear Therm. Expansion	0 – 50°C	E-5 /°K	ISO 11359	11
Flammability UL 94	1.6 mm	Class	IEC 707	HB
<b>Rheological Properties</b>				
Melt Volume Rate, MVR	230°C / 3.8kg	cm <sup>3</sup> /10min	ISO 1133	1.4
<b>Optical Properties</b>				
Luminous transmittance	d=3 mm			
	D65	%	ISO 13468-2	90
Refractive Index			ISO 489	1.49
<b>Other Properties</b>				
Density		g/cm <sup>3</sup>	ISO 1183	1.15
Humidity Absorption	23°C / 50%	%	ISO 62	0.34
<b>Recommended Processing Conditions</b>				
Predrying Temperature		°C		max. 88
Predrying Time in Desiccant-Type Drier		h		2 – 3
Melt Temperature		°C		230 – 240
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.

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