

## PLEXIGLAS® Resist zk30

---

### 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:



VAMP-TECH S.p.A  
Via delle Industrie 10/12 - 20874 Busnago (MB)  
Phone +39.039.6957821  
Fax: +39.039.6820563-6956388  
E-mail: [marketing@vamptech.it](mailto:marketing@vamptech.it)

**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.

---

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used. Evonik Industries is a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the ACRYLITE® trademark in the Americas.  
® = registered trademark  
PLEXIGLAS and PLEXIMID are registered trademarks of Evonik Röhm GmbH.

Evonik Industries AG Kirschenallee 64293 Darmstadt  
Telefon +49 6151 18-4711 Telefax +49 6151 18-3177  
[www.plexiglas-polymers.com](http://www.plexiglas-polymers.com)

Ref. No.: MC110-E3 V0160 Date: 2013-02-05

---