

PRODUCT INFORMATION

PLEXIGLAS® Resist zk40

Product Profile:

PLEXIGLAS® Resist zk40 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 zk40 is characterized by the following special properties:

- very good break resistance and impact strength
- improved resistance to stress cracking
- 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 zk40 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.

Properties:

	Parameter	Unit	Standard	PLEXIGLAS® Resist zk40
Mechanical Properties				
Tensile Modulus	1 mm/min	MPa	ISO 527	1600
Yield Stress	50 mm/min	MPa	ISO 527	42
Yield Strain	50 mm/min	%	ISO 527	4.5
Nominal Strain @ Break		%	ISO 527	30
Charpy Impact Strength	23°C	kJ/m²	ISO 179/1eU	80
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	94
Glass Transition Temperature		°C	ISO 11357	115
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	92
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	85
Coeff. of Linear Therm. Expansion	0 - 50°C	E-5 /°K	ISO 11359	12
Flammability UL 94	1.5 mm	Class	IEC 60695-11-10	HB
Rheological Properties				
Melt Volume Rate, MVR	230°C / 3.8kg	cm³/10min	ISO 1133	0.7
Optical Properties				
Luminous transmittance	d=3 mm	%	ISO 13468-2	90
Refractive Index	589nm/23°C		ISO 489	1.49
Other Properties				
Density		g/cm³	ISO 1183	1.13
Humidity Absorption	23°C / 50%	%	ISO 62	0.38
Recommended Processing Conditions				
Predrying Temperature		°C		max. 84
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.

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