

PLEXIGLAS® Resist zk5HF

Product Profile:

PLEXIGLAS® Resist zk5HF is an amorphous, impact-modified thermoplastic molding compound (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 zk5HF is characterized by the following special properties:

- high break resistance and impact strength
- improved resistance to stress cracking
- excellent flow.

Application:

Used for injection molding as well as for extruding sheets and profiles.

Examples:

applications involving thin walls and long flow paths; thin-walled components; items requiring accurate mold surface reproduction, such as very finely textured luminaire covers.

Processing:

PLEXIGLAS® Rzk5HF molding compound 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 25 kg polyethylene bags or in 500 kg 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 zk5HF
Mechanical Properties				
Tensile Modulus	1 mm/min	MPa	ISO 527	2500
Yield Stress	50 mm/min	MPa	ISO 527	55
Yield Strain	50 mm/min	%	ISO 527	4.5
Nominal Strain @ Break		%	ISO 527	25
Charpy Impact Strength	23°C	kJ/m ²	ISO 179/1eU	50
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	96
Coeff. of Linear Therm. Expansion	0 – 50°C	E-5 /°K	ISO 11359	9
Classes of construction product			DIN EN 13501-1	E
Flammability UL 94	1.5 mm	Class	IEC 60695-11-10	HB
Rheological Properties				
Melt Volume Rate, MVR	230°C / 3.8kg	cm ³ /10min	ISO 1133	8.1
Optical Properties				
Luminous transmittance	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	92
Refractive Index	589nm/23°C		ISO 489	1.49
Other Properties				
Density		g/cm ³	ISO 1183	1.17
Water Absorption in Water	saturation, 23°C	%	ISO 62	1.9
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
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.

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Evonik Performance Materials GmbH Kirschenallee 64293 Darmstadt
plexiglas.polymers@evonik.com
www.plexiglas-polymers.com

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