Plexiglas® Resist zk6HF

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

Product Profile:
PLEXIGLAS® Resist zk6HF 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 zk6HF is characterized by the following special properties:
excellent break resistance and impact strength
improved resistance to stress cracking
very good 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.

General Information	
UL YellowCard	E65495-247825
Additive	Impact Modifier
Features	Amorphous
	Good Flow
	Good Weather Resistance
	High Clarity
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
	Pleasing Surface Appearance
	Soft
Uses	Lighting Diffusers
	Profiles
	Sheet
	Thin-walled Parts
Forms	Pellets
Processing Method	Electrostatic Spray Coating
	Extrusion
	Injection Molding
	Profile Extrusion
	Sheet Extrusion

Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)
	Shear Modulus vs. Temperature (ISO 11403-1)
	Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	4.20	cm³/10min	ISO 1133
Water Absorption			ISO 62
23°C, 24 hr	1.8	%	
Equilibrium, 23°C, 50% RH	0.50	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1900	MPa	ISO 527-2/1
Tensile Stress (Yield)	45.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Nominal Tensile Strain at Break	50	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	75	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	94.0	°C	ISO 306/B50
CLTE - Flow (0 to 50°C)	1.1E-4	cm/cm/°C	ISO 11359-2
Flammability	**Nominal Value**		**Test Method**
Flame Rating (1.60 mm)	HB		UL 94
Fire Rating	B2		DIN 4102
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index	1.490		ISO 489
Transmittance [1]	91.0	%	ISO 13468-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	> 80.0	°C	
Drying Time	2.0 to 3.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	50.0 to 70.0	°C	
NOTE			
1.	D65		

Recommended distributors for this material

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