Plexiglas® Resist zk6BR

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

Product Profile:
PLEXIGLAS® Resist zk6BR 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 zk6BR is characterized by the
following special properties:
maximum break resistance and impact strength,
improved resistance to stress cracking
balanced property profile
AMECA listing.
Application:
Used for extruding and coextruding sheets and profiles as well as for injection molding
Examples:
extruded and injection-molded luminaire covers, extruded hollow profiles, writing utensils such as stencils and fountain pens, appliance housings, coextruded profiles for window frames, gutters, downspouts, and housewares such as cutlery handles, bowls, cookie jars.

General Information	
UL YellowCard	E65495-247823
Additive	Impact Modifier
Features	Good Weather Resistance
	High Clarity
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
	High Strength
	Pleasing Surface Appearance
Uses	Household Goods
	Housings
	Outdoor Applications
	Outdoor Furnishings
	Profiles
	Protective Coverings
	Writing Instruments
Processing Method	Coextrusion
	Extrusion

Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)
	Isochronous Stress vs. Strain (ISO 11403-1)
	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)	1.60	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	1800	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	54	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	80	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	93.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	88.0	°C	ISO 75-2/A
Glass Transition Temperature	109	°C	ISO 11357-2
Vicat Softening Temperature	95.0	°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
Haze	< 2.0	%	ASTM D1003
Injection	**Nominal Value**	**Unit**	
Drying Temperature	< 85.0	°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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