Plexiglas® Resist zk4BR

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

Product Profile:
PLEXIGLAS® Resist zk4BR is an amorphous, impact-modified thermoplastic molding compound (PMMA-I).
Typical properties of impact-modified
PLEXIGLAS® molding compounds are
excellent weather resistance
excellent transmission and clarity
brilliant appearance
the pleasant feel and sound of the moldings
PLEXIGLAS® Resist zk4BR is characterized by the following special properties:
high 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, ppliance housings, coextruded profiles for window frames, gutters, downspouts, and housewares such as cutlery handles, bowls, cookie jars.

General Information	
UL YellowCard	E65495-247816
Additive	Impact Modifier
Features	Good Weather Resistance
	High Clarity
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
	Impact Modified
	Pleasing Surface Appearance
Uses	Household Goods
	Housings
	Outdoor Applications
	Outdoor Furnishings
	Profiles
	Protective Coverings
	Writing Instruments
Forms	Pellets
Processing Method	Coextrusion
	Extrusion
	Injection Molding

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	1.18	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	4.50	cm³/10min	ISO 1133
Water Absorption			ISO 62
23°C, 24 hr	2.0	%	
Equilibrium, 23°C, 50% RH	0.60	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2800	MPa	ISO 527-2/1
Tensile Stress (Yield)	71.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.5	%	ISO 527-2/50
Nominal Tensile Strain at Break	19	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	25	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	99.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A
Glass Transition Temperature	108	°C	ISO 11357-2
Vicat Softening Temperature	102	°C	ISO 306/B50
CLTE - Flow (0 to 50°C)	8.0E-5	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]	92.0	%	ISO 13468-2
Haze	< 1.5	%	ASTM D1003
Injection	**Nominal Value**	**Unit**	
Drying Temperature	< 90.0	°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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