Plexiglas® Resist zk4HC

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

Product Profile:
PLEXIGLAS® Resist zk4HC 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 zk4HC is characterized by the
following special properties:
improved break resistance and impact strength
best resistance to stress cracking of all impact-modified PLEXIGLAS molding compounds
AMECA listing.
Application:
Used for extruding and coextruding sheets and profiles.
Examples:
extruded/coextruded sheets and profiles for automotive bodies and the sanitaryware sector (bathtubs and shower trays) or crystal-clear luminare covers for industrial plants that come into contact with aggressive media.

General Information	
UL YellowCard	E65495-247817
Additive	Impact Modifier
Features	Good Weather Resistance
	High Clarity
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
	Pleasing Surface Appearance
Uses	Automotive Applications
	Automotive Bumper
	Automotive Exterior Parts
	Automotive Exterior Trim
	Profiles
	Protective Coverings
	Sanitary Products
	Sheet
Forms	Pellets
Processing Method	Coextrusion
	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	1.18	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	1.10	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	2900	MPa	ISO 527-2/1
Tensile Stress (Yield)	68.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.5	%	ISO 527-2/50
Nominal Tensile Strain at Break	17	%	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**
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
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	< 90.0	°C	
Drying Time	2.0 to 3.0	hr	
Melt Temperature	220 to 260	°C	
Die Temperature	220 to 260	°C	
NOTE			
1.	D65		

Recommended distributors for this material

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