Plexiglas® Resist zk6HC

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

Product Profile:
PLEXIGLAS® Resist zk6HC is an amorphous, impact-modified thermoplastic molding compounds (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 zk6HC is characterized by the following special properties:
excellent break resistance and impact strength
best resistance to stress cracking of all impact-modified PLEXIGLAS® molding compounds.
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 luminaire covers for industrial plants that come into contact with aggressive media.

General Information	
UL YellowCard	E65495-247824
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)

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	0.400	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	2000	MPa	ISO 527-2/1
Tensile Stress (Yield)	47.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.5	%	ISO 527-2/50
Nominal Tensile Strain at Break	48	%	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**
Vicat Softening Temperature	97.0	°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
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	< 85.0	°C	
Drying Time	2.0 to 3.0	hr	
Melt Temperature	220 to 260	°C	
Die Temperature	220 to 260	°C	
NOTE			
1.	D65		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


WECHAT