Plexiglas® Satinice df23 zk6BR

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

PLEXIGLAS® Satinice df23 zk6BR, based on PLEXIGLAS® Resist zk6BR, is an impact modified molding compound characterized by diffuse scattering of light.
Typical properties of impact modified PLEXIGLAS® molding compound are
high break resistance and impact strength
improved resistance to stress cracking
good weather resistance
high surface hardness and mar resistance
the pleasant feel and sound of the moldings.
PLEXIGLAS® df23 zk6BR is characterized by the following special properties:
excellent lightdiffusion combined with excellent light transmission
matte surfaces can be obtained by varying the extrusion parameters.
Application:
Used for extruding profiles and sheets, but also for injection molding items for lighting engineering applications
Examples:
applications that call for light diffusion combined with optimum transmission

General Information	
Additive	Impact Modifier
Features	Good Weather Resistance High ESCR (Stress Crack Resist.) High Hardness High Impact Resistance Light Stabilized
Uses	Flexible Grips Lighting Diffusers Profiles Sheet
Forms	Pellets
Processing Method	Extrusion Injection Molding
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	1.15	g/cm³	ISO 1183

Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	1.30	cm^3/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1900	MPa	ISO 527-2/1
Tensile Stress (Yield)	46.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Nominal Tensile Strain at Break	36	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.0	kJ/m^2	ISO 179/1
Charpy Unnotched Impact Strength (23°C)	50	kJ/m^2	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	93.0	°C	ISO 75-2/A
Glass Transition Temperature	109	°C	ISO 11357-2
Vicat Softening Temperature	99.0	°C	ISO 306/B50
CLTE - Flow (0 to 50°C)	9.0E-5	cm/cm/°C	ISO 11359-2
Flammability	**Nominal Value**	**Unit**	**Test Method**
Glow Wire Ignition Temperature	700	°C	IEC 60695-2-13
Fire Rating	B2		DIN 4102
Half-Value Angle	21.0	°	DIN 5036
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance [1]	81.0	%	ISO 13468-2
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	< 85.0	°C	
Drying Time	2.0 to 3.0	hr	
Melt Temperature	230 to 260	°C	
Die Temperature	260	°C	
NOTE			
1.	D65		

Recommended distributors for this material

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