Plexiglas® Satinice df22 7H

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

PLEXIGLAS® Satinice df22 7H, based on PLEXIGLAS® 7H, is characterized by diffuse scattering of light.
Typical properties of PLEXIGLAS® molding compound are
good flow
high mechanical strength, surface hardness and mar resistance
very good weather resistance.
Special properties of PLEXIGLAS® Satinice df22 7H are
very good lightdiffusion combined with excellent light transmission
matte surfaces can be obtained by varying the extrusion parameters.
Application:
Used for extruding profiles and sheets for lighting engineering applications
Examples:
luminaire covers, displays, projection screens and similar lighting applications

General Information	
Features	Good Flow
	Good Weather Resistance
	High Hardness
	High Strength
	Light Stabilized
Uses	Displays
	Lighting Diffusers
	Profiles
	Sheet
	Video Equipment
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	1.19	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	1.10	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Modulus	3400	MPa	ISO 527-2/1
Tensile Stress (Break)	70.0	MPa	ISO 527-2/5
Tensile Strain (Break)	6.0	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	1.8	kJ/m^2	ISO 179/1
Charpy Unnotched Impact Strength (23°C)	20	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	101	°C	ISO 75-2/B
1.8 MPa, Unannealed	97.0	°C	ISO 75-2/A
Glass Transition Temperature	108	°C	ISO 11357-2
Vicat Softening Temperature	105	°C	ISO 306/B50
CLTE - Flow (0 to 50°C)	6.3E-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	12.5	°	DIN 5036
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance [1]	86.0	%	ISO 13468-2
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	< 95.0	°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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