Plexiglas® Satinice df22 8N

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

PLEXIGLAS® Satinice df22 8N, based on PLEXIGLAS® 8N, 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 8N are
very good lightdiffusion combined with excellent light transmission.
Application:
Used for injection molding items for lighting engineering applications
Examples:
luminaire covers, projection screens and similar applications

General Information	
Features	Good Flow
	Good Weather Resistance
	High Hardness
	High Strength
	Light Stabilized
Uses	Lighting Diffusers
	Video Equipment
Forms	Pellets
Processing Method	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)	2.40	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3300	MPa	ISO 527-2/1
Tensile Stress (Break)	67.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	1.8	kJ/m²	ISO 179/1
Charpy Unnotched Impact Strength (23°C)	18	kJ/m²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	103	°C	ISO 75-2/B
1.8 MPa, Unannealed	98.0	°C	ISO 75-2/A
Glass Transition Temperature	110	°C	ISO 11357-2
Vicat Softening Temperature	109	°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
Injection	**Nominal Value**	**Unit**	
Drying Temperature	< 95.0	°C	
Drying Time	2.0 to 3.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	60.0 to 90.0	°C	
NOTE			
1.	D65		

Recommended distributors for this material

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