

Plexiglas® Satinice df23 8N

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

PLEXIGLAS® Satinice df23 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 df23 8N are

excellent 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)	2.10	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2/1
Tensile Stress (Break)	65.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	%	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)	16	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	108	°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	21.0	°	DIN 5036
Optical	Nominal Value	Unit	Test Method
Transmittance ¹	81.0	%	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		

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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

