

Plexiglas® Satinice df21 8N

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

PLEXIGLAS® Satinice df21 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 df21 8N are

good lightdiffusion combined with excellent light transmission.

Application:

Used for injection molding items for lighting engineering applications

Examples:

displays, backlight units

General Information			
Features	Good Flow		
	Good Weather Resistance		
	High Hardness		
	High Strength		
	Light Stabilized		
Uses	Clear Sheet		
	Displays		
	Lighting Diffusers		
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)	2.50	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2/1
Tensile Stress (Break)	71.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.5	%	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/m ²	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	111	°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	5.40	°	DIN 5036
Optical	Nominal Value	Unit	Test Method
Transmittance ¹	87.0	%	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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