

Plexiglas® Satinice df20 8N

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

PLEXIGLAS® Satinice df20 8N based on PLEXIGLAS® 8N are characterized by diffuse scattering of light.

Besides showing the familiar properties of standard PLEXIGLAS® molding compound, such as

excellent weatherability,

high surface hardness and mar resistance,

PLEXIGLAS® Satinice df20 8N is special in that they combine

good diffusing power with excellent light transmission.

Application:

Used for injection molding items for lighting engineering applications

Examples:

displays, fiber optics, projection screens, lighting fixtures and similar applications in lighting engineering.

General Information			
Additive	Mold Release		
Features	Good UV Resistance		
	Good Weather Resistance		
	High Hardness		
	Scratch Resistant		
Uses	Displays		
	Lighting Fixtures		
	Optical Applications		
	Sheet		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	2.50	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2/1
Tensile Stress (Break)	74.0	MPa	ISO 527-2/5
Tensile Strain (Break)	5.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	19	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

Vicat Softening Temperature	108	°C	ISO 306/B50
CLTE - Flow (0 to 50°C)	6.3E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Fire Rating	B2		DIN 4102
Half-Value Angle	1.60	°	DIN 5036
Optical	Nominal Value		Unit
Transmittance ¹	88.0	%	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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