Spectar[™] Stratus Copolyester

Copolyester

Eastman Chemical Company

Message:

Eastman Spectar Stratus copolyester was formulated specifically for the lighting market. Spectar Stratus brings your projects to light with excellent diffusion and high light transmission and superb processability. Light diffuser sheets made with Spectar Stratus can be bent hot or cold and polished with commercial edge-finishing equipment, sanding, solvents, flames, or buffing to produce finished edges-and brilliant designs. It can be laser cut, routed, welded, drilled, die-punched, or joined by screws, rivets, or bolts. It can also be cut on conventional table, band, or radial-arm saws with blades commonly used for plastic.

Spectar Stratus can be vacuum-formed at lower temperatures than other plastics without pre-drying the sheet. It forms clear, strong bonds with commercially available cements and solvents. It accepts screen-printing, painting, laser-marking, and hot-stamping easily. Surface scratches or scuff marks can be removed using a common heat gun.

Best of all, lighting applications made with Spectar Stratus are made tough-durable enough to survive heavy-use and harsh environments, and is resistant to a variety of chemicals and cleaners. Because of this outstanding toughness, designers can insist on thinner designs without compromising performance.

General Information			
Features	Durable		
	Excellent Printability		
	Good Chemical Resistance		
	Good Crack Resistance		
	Good Processability		
	Good Toughness		
	High Impact Resistance		
	High Light Diffusion		
	Low to No Odor		
Uses	Decorative Displays		
	Lighting Diffusers		
	Sheet		
Forms	Pellets		
Processing Method	Machining		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1940	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	51.8	MPa	
Ultimate	25.8	MPa	

Tensile Elongation (Break)	59	%	ASTM D638
Flexural Modulus	2180	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact (3.00 mm)	31.2	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	71.1	°C	
1.8 MPa, Unannealed	65.6	°C	
Flammability	Nominal Value		Test Method
	НВ		
Flame Rating (3.00 mm)	V-2		UL 94

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