

Spectar UltraLite® Copolyester (PETG) Solid Sheet

Product data sheet 2021

Application / Uses:-

- Displays and Fixtures
- Indoor/ Outdoor signage
- POP (Point of Purchase)
- Shelving systems

Product Description:

Spectar Ultralite copolyester (PETG) extrudes into plastic sheet that is sparkling clear, tough, chemically resistant, odor-free, versatile, easy to work with and affordable. Its toughness allows fabricators to use thinner-gauge sheet than with other common materials, resulting in lower material costs. Yet it can be extruded into sheets as thick as 12mm (1/2in.). It extrudes at low temperature and will not crystallize or develop a crystalline haze. Cleaning solutions will not turn Spectar Ultralite copolyester white. It is easy to fabricate, allowing greater design freedom. It can be laser cut, routed, welded, drilled, die-punched, bent hot or cold, 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 Ultralite copolyester can be vacuum-formed at lower temperatures than other plastics without pre drying the sheet. Spectar Ultralite copolyester can be finished easily. Its edges can be polished by using commercial edge-finishing equipment, sanding, and solvents, flame-polishing or buffing. It forms clear, strong bonds with commercially available cements and solvents. It accepts screen-printing, painting, and hot-stamping easily. Surface scratches or scuff marks can be removed using a common heat gun.

Spectar UltraLite®
Copolyester (PETG) Solid
Sheet

Make in India

Advantages:

- Easy to print and decorate
- Excellent clarity
- Excellent thermo formable
- Good chemical resistance
- Odorless
- Outstanding impact resistance
- Outstanding toughness allows down gauging
- Resists chipping and cracking
- Versatile – easy to fabricate
- UV Coated



Recyclable

Contact details:

Email:

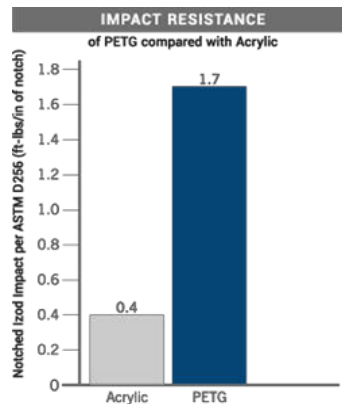
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Saraswati Plastotech India Pvt. Ltd

Lane4, Phase1, SIDCO Industrial Complex,

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Sheet Type	- Solid
Thickness	- 2-6mm (Other thickness on request & MOQ)
Size Standard-	1220 X 2440 MM 2050 X 2050 MM (Other sizes on request & MOQ)
Color	- Clear, White Diffuser (Other colors on request & MOQ)

Properties	Test Method	Units	Values
General Properties (ASTM Method)			
Thickness of Sheet Tested		mm	3
Density	D 1505	g/cm ³	1.27
Water Absorption, 24h immersion	D 570	%	0.2
Mechanical Properties (ASTM Method)			
Tensile Stress at Yield	D 638	MPA	53
Tensile Stress at Break	D 638	MPA	26
Elongation at Yield	D 638	%	4.8
Elongation at Break	D 638	%	50
Tensile Modulus	D 638	MPA	2200
Flexural Modulus	D 790	MPA	2100
Flexural Strength	D 790	MPA	77
Impact Strength			
Notched at 23° C	D 256	J/m	88
Un-Notched at 23° C	D 4812		No Break
Impact Resistance (Puncture), Energy at Max. Load at 23°C	D 3763	J	33
Thermal Properties (ASTM Method)			
Deflection Temperature			
@ 0.455MPa(66psi)	D 648	*C	74
@ 1.82MPa(264psi)	D 648	*C	70
Vicat Softening Point@ 1 kg load	D 1525	*C	83
CTE	D 696	mm/mm °C	7x 10 ⁻⁵ /°C
Flammability	UL 94		V-2
Optical Properties (ASTM Method)			
Haze	D 1003	%	<1
Light Transmittance (Clear)	D 1003	%	88

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Electrical Properties (ASTM Method)

Dielectric Constant			
1kHz	D 150		2.6
1MHz	D 150		2.4
Dissipation Factor			
1kHz	D 150		0.005
1MHz			0.02
Arc Resistance	D 495	sec	158
Volume Resistivity	D 257	ohm·cm	10 ¹⁵
Surface Resistivity	D 257	ohms/square	10 ¹⁶
Dielectric Strength, Short Time, 500 V/sec rate of rise	D 149	kV/mm	16.1

Note: Specimens were machined from extruded sheeting with a thickness as indicated. Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

Thermoforming

Owing to their excellent flow and mould surface reproduction, Spectar Ultralite sheets can be thermoformed at low temperatures without pre drying. Because of its low specific heat capacity, Spectar Ultralite requires little energy for thermoforming, even for complex 3D-forms.

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental stand point. Such testing has not necessarily been done by SPIPL. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and here by expressly release us from all liability, in tort, and contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing here in shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent. This product is not designated for the manufacture of a medical device or of intermediate products for medical devices. None the less, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices, for food contact products or cosmetic applications must be made solely by the purchaser of the product without relying upon any representations by SPIPL.

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