

Evonik Corporation Plexiglas® 99845 Crystal Clear Elastomer Based Film

Category : Polymer , Film , Thermoplastic , Acrylic (PMMA) , Elastomer, TPE

Material Notes:

Description: PLEXIGLAS® Clear Film 99845, based on polymethyl methacrylate and polybutyl acrylate elastomers, is absolutely crystal-clear. The film shows very good weather resistance and offers substrates excellent protection against natural UV radiation, of which it absorbs more than 98 %. Moreover, the film is resistant to stress whitening. The UV absorber is chemically bound and is not susceptible to migration. Specific Notes for this Material: PLEXIGLAS® Film 99845 is suitable as a UV and weather protection film for colored or grained PVC window profiles and for protecting sheets and profiles made from PVC or glass-reinforced polyester. It offers UV protection for garden furniture with decorative surfacing as well as UV protection and upgrades surfaces for outside doors made of PVC or ABS. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-99845-Crystal-Clear-Elastomer-Based-Film.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	45.0 MPa	6530 psi	no direction given; ISO 527
Film Elongation at Break, MD	25 %	25 %	no direction given; ISO 527
Film Elongation at Yield, MD	4.0 %	4.0 %	no direction given; ISO 527
Tensile Modulus	1.00 GPa	145 ksi	ISO 527

Thermal Properties	Metric	English	Comments
CTE, linear	150 µm/m-°C @Temperature 0.000 - 50.0 °C	83.3 µin/in-°F @Temperature 32.0 - 122 °F	DIN 53752A
Specific Heat Capacity	1.50 J/g-°C	0.359 BTU/lb-°F	
Vicat Softening Point	104 °C	219 °F	ISO 306, Method B 50

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Yellow Index	<= 0.40 %	<= 0.40 %	ASTM D1925
Transmission, Visible	92 %	92 %	DIN 5036

UV Transmittance Optical Properties	≤ 2.5 % Metric	≤ 2.5 % English	DIN 5036 Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	≥ 1.00e+13 ohm-cm	≥ 1.00e+13 ohm-cm	No thickness given; IEC 250
Surface Resistance	≥ 1.00e+13 ohm	≥ 1.00e+13 ohm	IEC 250
Dissipation Factor	0.030	0.030	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.040	0.040	IEC 250
	@Frequency 100 Hz	@Frequency 100 Hz	

Descriptive Properties	Value	Comments
Pencil Hardness	3H-4H	ASTM D3363

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