

## Evonik Corporation Europlex® 99510 Film Transparent Polycarbonate Based Film

Category : Polymer , Film , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Extruded

### Material Notes:

Description: EUROPLEX® Film 99510 is a highly transparent film made from polycarbonate with special UV stabilization. It has a high-gloss surface, is inherently rigid and highly impact-resistant in a temperature range between -25 °C and 135 °C. It is resistant to weak acids and saturated aliphatic hydrocarbons. Specific Notes for this Material: EUROPLEX® Film 99510 is employed for scales, nameplates, signs, covers, glazing, safety helmet shells, protective goggles and visors as well as for model making. Information provided by degussa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Europlex-99510-Film-Transparent-Polycarbonate-Based-Film.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Europlex-99510-Film-Transparent-Polycarbonate-Based-Film.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ISO 1183

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	60.0 MPa	8700 psi	no direction given; ISO 527
Film Elongation at Break, MD	>= 50 %	>= 50 %	no direction given; ISO 527
Film Elongation at Yield, MD	6.0 %	6.0 %	no direction given; ISO 527
Tensile Modulus	2.30 GPa	334 ksi	ISO 527

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C @Temperature 0.000 - 50.0 °C	38.9 µin/in-°F @Temperature 32.0 - 122 °F	DIN 53752A
Specific Heat Capacity	1.30 J/g-°C	0.311 BTU/lb-°F	
Vicat Softening Point	151 °C	304 °F	ISO 306, Method B 50

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Yellow Index	<= 1.6 %	<= 1.6 %	ASTM D1925
Transmission, Visible	90 %	90 %	DIN 5036

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	No thickness given; IEC 250

Surface Resistance Electrical Properties	1.00e+13 ohm Metric	1.00e+13 ohm English	IEC 250 Comments
Dissipation Factor	0.030 @Frequency 1e+6 Hz	0.030 @Frequency 1e+6 Hz	IEC 250
	0.040 @Frequency 100 Hz	0.040 @Frequency 100 Hz	IEC 250

Descriptive Properties	Value	Comments
Birefringence	1.58	
Pencil Hardness	HB	ASTM D3363

## Contact Songhan Plastic Technology Co.,Ltd.

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