

RowTec® UV UV ENHANCED POLYCARBONATE FILM

Typical Properties (for Clear unless otherwise noted)

	Test Method	Units	Typical Values
Physical			
Specific Gravity	ASTM D-792	–	1.20
Area Factor	ASTM D-590	ft ² / lb / mil	160
Water Absorption at equilibrium	ASTM D-570	%	0.35
Rockwell Hardness	ASTM D-785	R Scale	118
Optical			
Refractive Index @ 77° F (25° F)	ASTM D-542	N _D	1.587
Light Transmission	ASTM D-1003	%	89
Haze	ASTM D-1003	%	< 1.0
Yellowness Index	ASTM D-1925	–	< 1.0
Weatherability			
Yellowness Index, control	ASTM D-2565	–	< 1.0
Yellowness Index, PC9 after 1000 hours Xenon Arc	ASTM D-2565	–	< 1.5
Yellowness Index, PC9 after 2000 hours Xenon Arc	ASTM D-2565	–	< 3.0
Yellowness Index, non-UV enhanced after 1000 hours Xenon Arc	ASTM D-2565	–	< 13.0
Yellowness Index, non-UV enhanced after 2000 hours Xenon Arc	ASTM D-2565	–	< 18.0

Footnotes:

(1) Value for 0.010" film

(2) Value for 0.030" film

Note

Properties reported here are typical of average lots. Rowland Advanced Polymer Films makes no representation that the material in any particular shipment will conform exactly to the value given herein nor is Rowland Advanced Polymer Films responsible for the performance of this material for a given application. The user of the material should perform their own testing to determine the suitability of the material for the intended use. Applications depicted herein are not specifications. They are provided as information only.

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



ORAFOL Americas
Advanced Polymer Films

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Mechanical			
Tensile Strength, Break	ASTM D-638	psi	9,000
Tensile Strength, Yield	ASTM D-638	psi	8,500
Tensile Elongation, Break	ASTM D-638	%	120 - 150
Tensile Modulus of Elasticity	ASTM D-638	psi	350,000
Tear Strength, Initial	ASTM D-1004	lb / mil	1.4 - 1.8
Tear Strength, Propagation	ASTM D-1922	g / mil	30 - 55
Impact Strength, Gardner ³	ASTM D-5420	in lbs	120
Thermal			
Deflection Temperature under Flexural Load @ 264 psi	ASTM D-648	°F	278
Coefficient of Thermal Expansion	ASTM D-696	in / in / °F	38 x 10 ⁻⁶
Brittleness Temperature	ASTM D-746	°F	-211
Vicat Softening Temperature	ASTM D-1525	°F	305
Electrical			
Dielectric Strength @ 72° F in oil, short time ²	ASTM D-149	V / mil	1,700
Dielectric Constant 60 Hz/1 Mhz	ASTM D-150	–	3.00 / 3.00
Dielectric Factor 60 Hz/1 Mhz	ASTM D-150	–	0.10 / 1.11
Volume Resistivity	ASTM D-257	Ω-cm	10 ¹⁷
Surface Resistivity	ASTM D-257	Ω-cm ²	10 ¹⁵

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