

# RowLux<sup>®</sup> 3D PATTERN

## A RowLux<sup>®</sup> Illusion film – PC2

### Typical Properties for Polycarbonate

	Test Method	Units	Typical Values
<b>Physical</b>			
Specific Gravity	ASTM D-792	–	1.20
Water Absorption	ASTM D-570	% max	0.32 equilibrium
Rockwell Hardness	ASTM D-785	R Scale	118
Pencil Hardness	ASTM D-3363	Scratch Hardness	B
Coefficient of Thermal Expansion	ASTM D-696	in / in / °F	38 x 10 <sup>-6</sup>
<b>Optical</b>			
Light Transmission	ASTM D-1003	%	88-91
Refractive Index	ASTM D-542	N <sub>b</sub>	1.586
<b>Mechanical</b>			
Tensile Strength, Yield	ASTM D-882	psi	8,700
Tensile Strength, Break	ASTM D-882	psi	10,500
Elongation	ASTM D-882	%	150
Tensile Modulus	ASTM D-882	psi	350,000
<b>Thermal</b>			
Tensile Heat Distortion	ASTM D-1637	°F	302 @ 50 psi
Deflection Temperature	ASTM D-648	°F	288 @ 264 psi
Vicat Softening Temperature	ASTM D-1525	°F	305-315

#### 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

320 Barnes Road  
Wallingford, CT 06492  
polymer-americas@orafol.com – www.orafol.com