

Product Description

RowTec® UV utilises a speciality UV modified resin which enables improved ultraviolet stability in outdoor environmental conditions.

Surface Area

RowTec® UV will exhibit less yellowing when compared to standard non-UV modified polycarbonate Film.

Application Area

Applications include overlays, outdoor menu boards, nameplates, labels, and decals where UV stability is desired.

Technical Data	Test-Method	Unit	Value
Physical			
Specific Gravity	ASTM D-792	g / cm ³	1,20
Area Factor	ASTM D-590	m ² /kg/μm	832
Water Absorption at Equilibrium	ASTM D-570	%	0,35
Rockwell Hardness	ASTM D-785	R Scale	118
Optical			
Refractive Index @ 25°C	ASTM D-542	N _D	1,587
Light Transmission	ASTM D-1003	%	89
Haze	ASTM D-1003	%	< 1
Yellowness Index	ASTM D-1925	---	< 1
Weatherability			
Yellow Index, control	ASTM D-2565	---	< 1
Yellow Index, PC9 after 1000 hours Xenon Arc	ASTM D-2565	---	< 1,5
Yellow Index, PC9 after 2000 hours Xenon Arc	ASTM D-2565	---	< 3
Yellow Index, regular PC after 1000 hours Xenon Arc	ASTM D-2565	---	< 13
Yellow Index, regular PC after 2000 hours Xenon Arc	ASTM D-2565	---	< 18
Mechanical			
Tensile Strength, Break	ASTM D-638	MPa	60
Tensile Strength, Yield	ASTM D-638	MPa	60
Tensile Elongation, Break	ASTM D-638	%	120 - 150
Tensile Modulus of Elasticity	ASTM D-638	MPa	2.400
Tear Strength, Initial	ASTM D-1004	N/μm	0,25 - 0,32
Tear Strength, Propagation	ASTM D-1922	g / μm	1,18 - 2,15
Impact Strength, Gardner ²	ASTM D-5420	J	13
Thermal			
Deflection Temperature under Flexural Load @ 1.8 MPa	ASTM D-648	°C	137
Coefficient of Thermal Expansion	ASTM D-696	cm / cm / °C	68,4 x 10 ⁻⁶
Brittleness Temperature	ASTM D-746	°C	-135
Vicat Softening Temperature	ASTM D-1525	°C	152
Electrical			
Dielectric Strength @ 22°C in oil, short time ¹	ASTM D-149	kV/cm	670
Dielectric Constant 60 Hz /1 MHz	ASTM D-150	---	3,00 / 3,00
Dissipation Factor 60 Hz /1 MHz	ASTM D-150	---	0,010 / 0,002
Volume Resistivity	ASTM D-257	Ω-cm	10 ¹⁷
Surface Resistivity	ASTM D-257	Ω-cm ²	10 ¹⁵

Footnotes: (1) Value for 0,380 mm Film

IMPORTANT NOTICE

All RowTec® products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning RowTec® products is based upon research, which the Company believes to be reliable although such information does not constitute a warranty. Because of the variety of uses of RowTec® products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. All specifications are subject to change without prior notice.

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