

Product Description

RowTec® PCE Polycarbonate Film is extruded from the finest quality resin and to the highest quality for graphic arts grade films. Key performance properties include superior optical, thermal, mechanical, and electrical characteristics.

Surface Area

RowTec® PCE Film is available in a variety of custom colors, textures, and thicknesses for optimum design freedom.

Application Area

RowTec® PCE is easily printed, die-cut, embossed, thermoformed, and hot stamped. RowTec Film delivers the clarity, dimensional stability, and impact resistance properties you demand.

Technical Data	Test-Method	Units	Value
Physical			
Specific Gravity	ASTM D-792	---	1,20
Area Factor	ASTM D-590	m ² /kg/μm	833
Water Absorption at equilibrium	ASTM D-570	%	0,32
Rockwell Hardness	ASTM D-785	R Scale	118
Pencil Hardness	ASTM D-3363	Scratch Hardness	B
Optical			
Refractive Index @ 25°C	ASTM D-542	N _D	1,586
Light Transmission	ASTM D-1003	%	89
Haze ⁴	ASTM D-1003	%	0,5
Yellowness Index	ASTM D-1925	---	< 1,0
Mechanical			
Tensile Strength, Break	ASTM D-638	MPa	72
Tensile Strength, Yield	ASTM D-638	MPa	60
Tensile Elongation, Break	ASTM D-638	%	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
Burst Strength ¹	ASTM D-774	Mullen, MPa	0,275 - 0,310
Fold Endurance ²	M.I.T.	Double Folds	200
Impact Strength, Gardner ³	ASTM D-5420	J	13
Thermal			
Deflection Temperature under Flexural Load @ 1.8 MPa	ASTM D-648	°C	142
Tensile Heat Distortion @ 0.34 MPa	ASTM D-1637	°C	150
Specific Heat Capacity @ 25 °C	ASTM C-351	J/g/°C	1,26
Thermal Conductivity	ASTM C-177	W/m °C	1,78
Coefficient of Thermal Expansion	ASTM D-696	cm / cm / °C	68,4 x 10 ⁻⁶
Strain Relief @ 135 °C	ASTM D-1204	%	< 0.2
Brittleness Temperature	ASTM D-746	°C	-135
Vicat Softening Temperature	ASTM D-1525	°C	152
Electrical			
Dielectric Strength @ 22°C in oil, short time ²	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	---	0,001 / 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 0,025 mm film, (2) Value for 0,250 mm film, (3) Value for 0,762 mm film, (4) Value measured for Gloss/Gloss 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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