

PLEXIGLAS® FILMS FOR THE LABELS INDUSTRY

SELECTION OF WHITE PLEXIGLAS® FILMS

Properties	Test method	Unit	Value		
PLEXIGLAS® Film			WF002	WF007	WF011
Profile			Durable	Destructible	Ultra-destructible
Thickness		µm	50	50	50
Optical					
Luminous reflectance (D65)		%	82	81	89
L* (in reflection, D65)			92,5	92,6	95,7
a* (in reflection, D65)	DIN 5033 (8°/di)		-0,9	-1,0	-1,0
b* (in reflection, D65)	ISO 17223, ISO 11664		-0,9	-1,2	-0,6
Color coordinate x (in reflection, D65)			0,311	0,310	0,312
Color coordinate y (in reflection, D65)			0,330	0,329	0,331
UV transmittance (280 – 380 nm)	DIN EN 410	%	0	0	0
Gloss (R20°/60°/85°) Top side	ISO 2813		45 / 68 / 94	46 / 77 / 95	2 / 6 / 36
Mechanical					
Tensile stress at yield	ISO 527-3	MPa	33	41	No yield
Nominal strain at break	ISO 527-3	%	> 50	25	< 5
Miscellaneous					
Accelerated weathering resistance	ISO 4892-2, method A, cycle 1	h	10000 No visible change	10000 No visible change	10000 No visible change
Mass per unit area	ISO 1183	g/m ²	64	64	89
Surface tension	DIN 53364	mN/m	38 - 40	36	42
Requirement of Commission Regulation (EU) No 10/2011			-	-	✓

SELECTION OF TRANSPARENT PLEXIGLAS® FILMS

Properties	Test method	Unit	Value	
PLEXIGLAS® Film			0F079	0F080
Profile			Ultra-destructible	Durable
Thickness		µm	50	53
Optical				
Luminous transmittance (D65)	ISO 13468-2	%	92	92
Yellowness index (D65/10°)	ISO 17223		0,5	0,5
Haze	ASTM D1003		< 1	< 1,5
UV transmittance (280 – 380 nm)	DIN EN 410	%	91	< 1
Mechanical				
Tensile stress at yield	ISO 527-3	MPa	72	35
Nominal strain at break	ISO 527-3	%	< 15	> 50
Miscellaneous				
Accelerated weathering resistance	ISO 4892-2, method A, cycle 1	h	-	5000 No visible change
Mass per unit area	ISO 1183	g/m ²	59	60
Surface tension	DIN 53364	mN/m	38 - 42	38 - 42
Requirement of Commission Regulation (EU) No 10/2011			-	-

® = registered trademark PLEXIGLAS is a registered trademark of Evonik Röhm GmbH, Darmstadt, Germany.
Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

Evonik Industries is a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the ACRYLITE® trademark in the Americas.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

EVONIK PERFORMANCE MATERIALS GMBH

Acrylic Products

Riedbahnstr. 70
64331 Weiterstadt
Germany

info@plexiglas.net
www.plexiglas.net

Ref. No. 239-68