

Technical Information

PLEXIGLAS® FILM 0F080

PRODUCT DATA SHEET

PRODUCT

PLEXIGLAS® Film 0F080 is a weather resistant, glossy, and transparent acrylic film for graphic printings and laminations.

Due to its good performance under weathering and UV light exposure, PLEXIGLAS® Film 0F080 does not present color change or yellowing. Therefore it provides good protection of laminating systems from degradation caused by UV radiation.

Its glossy and smooth surface leads the film to have a high optical quality surface.

APPLICATION

PLEXIGLAS® Film 0F080 can be used to be printed on as film decoration and then laminated on different polymeric films and sheets. Laminated decoration films based on PLEXIGLAS® are suitable for a wide range of molding processes such as thermoforming and insert molding.

In labels and tapes, PLEXIGLAS® Film 0F080 can be used as single face layer or clear overlay in laminated film systems for UV and weathering protection. High gloss and quality finishing is achieved.

Due to its good optical property and lamination with pressure sensitive adhesive (PSA), PLEXIGLAS® 0F080 is recommended for traffic control signs.

Due to its good optical properties PLEXIGLAS® 0F080 can be used as an overlay in ID Cards.

PROCESSING

PLEXIGLAS® Film 0F080 has excellent printability behavior in all printing technologies such as gravure, flexography and digital. In most cases any pre-treatment or primers are not required.

PLEXIGLAS® Film 0F080 can be laminated onto polymeric substrates such as films or extruded sheets based on PVC, PC, ABS, PMMA and ASA by in-line or roll-to-roll heat lamination.

Laminates in between PLEXIGLAS® Film 0F080 and other polymeric substrates such as PET, PC, PP, PE and PVC, can be achieved with pressure sensitive adhesives (PSA) or solvent based adhesives.

The film can be cut-to-size or die cut.

SALES RANGE

PLEXIGLAS® Film 0F080 is delivered in standard rolls of 50 µm thickness, 1143 mm or 1372 mm width and 914 m length or 75 µm thickness, 1524 mm width and 914 m length

Tailor made rolls can be produced under prior commercial agreement.

TECHNICAL DATA

Properties	Test method	Unit	Value
Optical			
Luminous transmittance (D65)	ISO 13468-2	%	92
Yellowness index (D65/10°)	ISO 17223		0,5
Haze	ASTM D1003		< 1,5
UV transmittance (280 – 380 nm)	DIN EN 410	%	< 1
Mechanical			
Tensile stress at yield	ISO 527-3	MPa	35
Nominal strain at break	ISO 527-3	%	> 50
Thermal			
Glass transition temperature Tg (DSC)	ISO 11357	° C	93
Miscellaneous			
Accelerated weathering resistance	ISO 4892-2 method A, cycle 1	h	5000 No visible change
Specific gravity	DIN 53479	g/cm ³	1,14
Mass per unit area	ISO 1183	g/m ²	60
Surface tension	DIN 53364	mN/m	38-42

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 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.

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