

TECHNICAL DATA SHEET



ContraVision HD Performance with <u>Grayliner</u>TM Universal Liner WBPA40HDA	Page: 1/2
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4. Typical Properties

PROPERTY	VALUE	NOTES
Face film	White on Black laminated polymeric calendered pvc	Warm white
Thickness of face film	150µm (5 mil)	±10 µm (±0.4 mil)
Hole pattern	40% transparency 1.0mm (0.04") diameter holes 1.5mm (0.06") between hole centres	Face film, adhesive and part of liner
Adhesive	Transparent, solvent polyacrylate	
Adhesive coating weight	28g/m ² (0.83 oz/yard ²)	±3g/m ² (±0.09 oz/yard ²)
Liner	Perforated silicone coated paper laminated with grey-printed paper backprinted with Contra Vision [®] Performance [™] branding.	Part-perforated Additional Liner
Liner weight after perforating	152g/m ² (4.5 oz/yard ²)	±5g/m ² (±0.15 oz/yard ²)
Minimum application temperature	+5°C (41°F)	Air and substrate
Peel adhesion 24 hours	4N/25mm 36oz/in	Printed film on glass, typical value
Peel adhesion 1 month	4N/25mm 36 oz/in	Printed film on glass, typical value
Removability	Minimum 6 months	Clear removability without adhesive residue at 23°C to 25°C (73°F to 77°F) and RH of 50-60%
Durability	3 years	Durability stated is for unprinted and untreated material correctly applied to an inert, vertical substrate subject to Mid-European weathering conditions. Some printing inks and drying or curing regimes may reduce the expected lifetime of the printed graphic. Please consult your ink manufacturer for guidance. Incorrect application methods, inadequate window cleaning and preparation and incompatible window treatments may reduce the expected lifetime of the applied material whether printed or unprinted, overlaminated or unlaminated. Mechanically sustained damage, chemical damage and UV-degradation to printed, unprinted, laminated or unlaminated material may also reduce expected durability. All perforated window films are especially vulnerable to damage along the edges and corners, which may lead to premature failure. Typical application life is up to eighteen months.
Shrinkage	x direction 0.05%, y direction 0.32%	
Service temperature	-25°C to 65°C (-13°F to 149°F)	
Shelf life	2 years	Under ordinary condition at temperature of 22°C (72°F) and relative humidity of 50-55%

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