

XTRAFORM 2D

Product Data Sheet

Formable Hardcoated Polycarbonate Film



DESCRIPTION

XtraForm 2D is a hardcoated polycarbonate film designed to allow shallow forming whilst retaining its abrasion resistant properties.

XtraForm 2D has a chemically bonded, UV cured hard surface coating in a gloss or antiglare finish.



PRODUCT RANGE

Product	Finish	180µm	250µm	380µm	480µm
XtraForm 2D	Gloss	G180L G180 2L	G250L G250 2L	G380L G380 2L	G480L G480 2L
	Antiglare	A180L	A250L	A380L	A480L

Key: L = Laminated on print side
2L = 2 sides laminated

LAMINATE

The protective laminate on the print surface should be left in place until the first ink print pass. The laminate on the print side is clearer than the one on the hardcoated side. The hardcoat laminate is hazy in appearance.

SHELF LIFE AND STORAGE

XtraForm 2D has a 36 months shelf life from date of manufacture when stored in cool, dry conditions in the original packaging. Once processed this shelf life does not apply. Finished parts can last many years.



TYPICAL PROPERTIES

Property	XtraForm 2D	Test Method ¹
Thickness	Nominal $\pm 10\%$	Test method 096
Haze		ASTM D1003
Gloss	$< 0.3\%$	
Antiglare	$10.8\% \pm 3\%$	
Gloss level (60°)		ASTM D2457(modified to test method 022)
Gloss	93 ± 2	
Antiglare	50 ± 5	
Total Luminous Transmission	$92\% \pm 2\%$	ASTM D1003
Yellowness Index	< 2	ASTM E313
Taber abrasion	Change in % haze	Test method 103
Gloss	$< 5\%$	
Antiglare	N/A	
Humidity test	$60^\circ\text{C}/95\% \text{RH}$ for 7 days No visible change	Test method 012
Thermal test	4 weeks at 50°C No visible change	Test method 012
Chemical resistance	Good resistance to many common industrial chemicals and household cleaning agents	DIN 42 115

¹ For details of test methods, please contact MacDermid.

BASE FILM DATA¹

Property	Data	Test Method
Tensile strength	$\geq 60 \text{ N/mm}^2$	ASTM D882-83/ISO 527
Relative density	1.2	ASTM D1505-85

¹ Derived from supplier's literature

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CONTACT INFORMATION

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