

Technical Data Sheet

Synaps® XM 450

Xerography matt 450 g/m²

version 0.1- 2011-09-12

Property	Test method	Unit	Value
Thickness Average Tolerance	ASTM D-6988	µm µm	350 min.330 / max.370
Weight	ISO 536	g/m ²	450
High temperature limit	Internal Agfa test (0.2% shrinkage)	°C (°F)	>=120 (>= +248)
Low temperature limit	Internal Agfa test (brittleness)	°C (°F)	-40 (-40)
Thermal coefficient of expansion	Internal Agfa test (-40 to 60°C)	µm/mK	tbd
Tear resistance	ASTM D1938	mN	>2500
Initial tear strength	ASTM D1004	N	>140
Elasticity modulus	ASTM D882	N/mm ²	Tbd
Stiffness	ISO 2493	mN	>100
Conductivity	DIN IEC 93	Ω/□	1 x 10 ¹¹
BEKK smoothness	ISO 5627	Sec	100-200
Roughness Ra Rz Rmax	Surftest	µm µm µm	0.7 4.3 5.0
Opacity	ISO 2471	%	95-98
Brightness	ISO 2470C		90-93
Whiteness Cie	ISO 11475		86-88
Gloss 75°	Tappi T480		5
Chemical resistance	Internal Agfa method – 10min	Water NaCl 10% H ₂ SO ₄ 38% Ethanol Aceton	OK OK OK NOK NOK
Mass density	ISO 534	g/cm ³	1.28 ± 0.10
Surface pH			4.9
Surface energy		mN/m	39