



COMPOSITION OF POLYART™

POLYART™ is a composite film based on high density polyethylene (H.D.P.E.) and is therefore classed as "polyethylene film" the basic composition is as follows:-

HIGH DENSITY POLYETHYLENE	75%
FILLER (TiO ₂ + CaCO ₃)	15%
PROCESS AIDS	10%

The process aids include polystyrene (less than 5%), antioxidant and stabilizer. The film is coated to make it printable. The coating consists of a mixture of calcium carbonate plus china clay, with an acrylic binder and comprises from 10%-20% of the film depending on thickness.

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Arjobex
SYNTHETIC PAPERS



PROPERTIES – POLYART™ 75

TEST	METHOD	UNITS	VALUE
Thickness	DIN 53370	μm	95
Weight	DIN 53352	g/m ²	75
Density		g/cm ³	0.79
Whiteness	ISO 2470	%	90
Opacity	DIN 53146	%	92
Gloss	DIN 67530	%	12
Tensile Strength			
MD	DIN 53455	N/mm ²	45
TD			35
Elongation @ break			
MD	DIN 53455	%	120
TD			130
Tear strength			
MD	ASTM	N/mm	84
TD	D1004-66		109
Rigidity (Kodak)	ISO 5629 (1983)	mN.m	0.15
Fold 180°		Times	>5x10 ⁴
Burst	BS 3137	kPa	450
Surface resistivity	ASTM D-257	Ω/□	<10 ¹⁴

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ARJOBEX, 15 RUE DANIELLE CASANOVA, 75001 PARIS. FAX (33) 1 42 86 00 10



PROPERTIES – POLYART™ 90

TEST	METHOD	UNITS	VALUE
Thickness	DIN 53370	μm	110
Weight	DIN 53352	g/m ²	90
Density		g/cm ³	0.82
Whiteness	ISO 2470	%	90
Opacity	DIN 53146	%	94
Gloss	DIN 67530	%	12
Tensile Strength MD TD	DIN 53455	N/mm ²	45 35
Elongation @ break MD TD	DIN 53455	%	120 130
Tear strength MD TD	ASTM D1004-66	N/mm	82 106
Rigidity (Kodak)	ISO 5629 (1983)	mN.m	0.27
Fold 180°		Times	>5x10 ⁴
Burst	BS 3137	kPa	500
Surface resistivity	ASTM D-257	Ω/□	<10 ¹⁴

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PROPERTIES – POLYART™ 110

TEST	METHOD	UNITS	VALUE
Thickness	DIN 53370	μm	140
Weight	DIN 53352	g/m ²	110
Density		g/cm ³	0.8
Whiteness	ISO 2470	%	90
Opacity	DIN 53146	%	95
Gloss	DIN 67530	%	12
Tensile Strength			
MD	DIN 53455	N/mm ²	45
TD			35
Elongation @ break			
MD	DIN 53455	%	120
TD			130
Tear strength			
MD	ASTM	N/mm	80
TD	D1004-66		105
Rigidity (Kodak)	ISO 5629 (1983)	mN.m	0.43
Fold 180°		Times	>5x10 ⁴
Burst	BS 3137	kPa	550
Surface resistivity	ASTM D-257	Ω/□	<10 ¹⁴

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PROPERTIES – POLYART™ 140

TEST	METHOD	UNITS	VALUE
Thickness	DIN 53370	μm	175
Weight	DIN 53352	g/m ²	140
Density		g/cm ³	0.8
Whiteness	ISO 2470	%	90
Opacity	DIN 53146	%	97
Gloss	DIN 67530	%	12
Tensile Strength			
MD	DIN 53455	N/mm ²	40
TD			32
Elongation @ break			
MD	DIN 53455	%	130
TD			130
Tear strength			
MD	ASTM	N/mm	82
TD	D1004-66		107
Rigidity (Kodak)	ISO 5629 (1983)	mN.m	0.85
Fold 180°		Times	>5x10 ⁴
Burst	BS 3137	kPa	650
Surface resistivity	ASTM D-257	Ω/□	<10 ¹⁴

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PROPERTIES – POLYART™ 170

TEST	METHOD	UNITS	VALUE
Thickness	DIN 53370	μm	215
Weight	DIN 53352	g/m ²	170
Density		g/cm ³	0.8
Whiteness	ISO 2470	%	90
Opacity	DIN 53146	%	98
Gloss	DIN 67530	%	12
Tensile Strength			
MD	DIN 53455	N/mm ²	38
TD			30
Elongation @ break			
MD	DIN 53455	%	130
TD			120
Tear strength			
MD	ASTM	N/mm	84
TD	D1004-66		108
Rigidity (Kodak)	ISO 5629 (1983)	mN.m	1.30
Fold 180°		Times	>5x10 ⁴
Burst	BS 3137	kPa	750
Surface resistivity	ASTM D-257	Ω/□	<10 ¹⁴

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PROPERTIES – POLYART™ 200

TEST	METHOD	UNITS	VALUE
Thickness	DIN 53370	μm	250
Weight	DIN 53352	g/m ²	200
Density		g/cm ³	0.8
Whiteness	ISO 2470	%	90
Opacity	DIN 53146	%	98
Gloss	DIN 67530	%	12
Tensile Strength			
MD	DIN 53455	N/mm ²	34
TD			28
Elongation @ break			
MD	DIN 53455	%	130
TD			120
Tear strength			
MD	ASTM	N/mm	75
TD	D1004-66		100
Rigidity (Kodak)	ISO 5629 (1983)	mN.m	2.1
Fold 180°		Times	>5x10 ⁴
Burst	BS 3137	kPa	850
Surface resistivity	ASTM D-257	Ω/□	<10 ¹⁴

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PROPERTIES – POLYART™ 240

TEST	METHOD	UNITS	VALUE
Thickness	DIN 53370	μm	300
Weight	DIN 53352	g/m ²	240
Density		g/cm ³	0.8
Whiteness	ISO 2470	%	90
Opacity	DIN 53146	%	98
Gloss	DIN 67530	%	12
Tensile Strength			
MD	DIN 53455	N/mm ²	34
TD			28
Elongation @ break			
MD	DIN 53455	%	150
TD			140
Tear strength			
MD	ASTM	N/mm	85
TD	D1004-66		110
Rigidity (Kodak)	ISO 5629 (1983)	mN.m	4.0
Fold 180°		Times	>5x10 ⁴
Burst	BS 3137	kPa	850
Surface resistivity	ASTM D-257	Ω/□	<10 ¹⁴

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