

MAKO CLEAR

Clear PPF

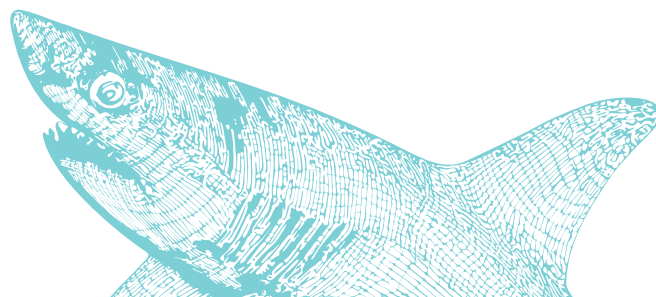
TECHNICAL SPECIFICATIONS

TEST ITEM		TEST METHOD	UNIT	STANDARD VALUE	TEST VALUE
Film Thickness	Aggregate Thickness	GB/T 6672	μm	316 $\pm$ 10	320
	Thickness of Working Layer			191 $\pm$ 10	192
Width		GB/T 6673	mm	1522 $\pm$ 2	1524
Length		Meter Counter	m/roll	15	15
Elastic Modulus		ASTM D-882	Kgf/cm ²	180 $\leq$ E $\leq$ 400	248.8
Tensile Strength		GB/T 17657-2013	MPa	$\geq$ 16	21.7
Elongation at Break	Repair Layer	ASTM D-882	%	$\geq$ 100	120
	Finished Product			$\geq$ 300	328.1
Adhesion Performance	Initial Peel Adhesion	FINAT3	N/in	20 $\leq$ F $\leq$ 25	23
	Loop Tack			15 $\leq$ F $\leq$ 20	17.8
	Peel Adhesion			25 $\leq$ F $\leq$ 35	33.7
Puncture Resistance	Puncture Force	GB/T 10004	N	$\geq$ 35	41.6
	Puncture Strength		MPa	$\geq$ 5	7.6
Optical Performance	Visible Light Transmission	GB/T 2410	%	$\geq$ 85	88.8
	UV Rejection	GB/T 2680	%	$\geq$ 85	87.9
	Haze	ASTM D1003	%	$\leq$ 2	0.48
	Gloss	60° Gloss Tester	°	$\geq$ 90	91
	Hydrophobic	Hydrophobic Test Machine	°	$\leq$ 90	85.7
Self-Healing Performance		Tested with 10 strokes of fine copper brush at a load of 200 g/cm ² ; surface self-healed when exposed to hot water (~70 °C) or hot air.	S	$\leq$ 5	Pass
Marker Resistance		Oil-based marker MG-2110, dried ink, wiped with alcohol	/	Residue Classification: No Residue / Grade 1 / Grade 2	1
Chemical Resistance		Application of standard carburetor cleaning agent to the film surface for 1 minute.	/	No swelling	No swelling

*The above data is used as a reference for material selection, but does not constitute a guarantee.

*The company has the right to modify the relevant technical data without prior notice.

If you have any inquiry, feel free to contact us.



MAKO PRO

Clear PPF

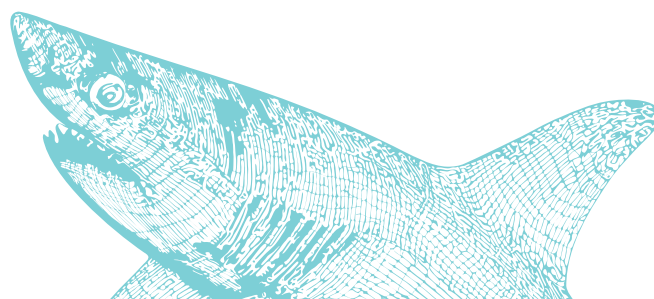
TECHNICAL SPECIFICATIONS

TEST ITEM		TEST METHOD	UNIT	STANDARD VALUE	TEST VALUE
Film Thickness	Aggregate Thickness	GB/T 6672	μm	341 $\pm$ 10	343
	Thickness of Working Layer			216 $\pm$ 10	218
Width		GB/T 6673	mm	1522 $\pm$ 2	1524
Length		Meter Counter	m/roll	15	15
Elastic Modulus		ASTM D-882	Kgf/cm ²	180 $\leq$ E $\leq$ 400	224
Tensile Strength		GB/T 17657-2013	MPa	$\geq$ 16	20
Elongation at Break	Repair Layer	ASTM D-882	%	$\geq$ 100	120
	Finished Product			$\geq$ 300	319.1
Adhesion Performance	Initial Peel Adhesion	FINAT3	N/in	20 $\leq$ F $\leq$ 25	23.1
	Loop Tack			15 $\leq$ F $\leq$ 20	15.4
	Peel Adhesion			25 $\leq$ F $\leq$ 35	34
Puncture Resistance	Puncture Force	GB/T 10004	N	$\geq$ 35	42.6
	Puncture Strength		MPa	$\geq$ 5	8.9
Optical Performance	Visible Light Transmission	GB/T 2410	%	$\geq$ 85	87.8
	UV Rejection	GB/T 2680	%	$\geq$ 85	89.3
	Haze	ASTM D1003	%	$\leq$ 2	0.27
	Gloss	60° Gloss Tester	°	$\geq$ 90	92
	Hydrophobic	Hydrophobic Test Machine	°	$\leq$ 90	82.3
Self-Healing Performance		Tested with 10 strokes of fine copper brush at a load of 200 g/cm ² ; surface self-healed when exposed to hot water (~70 °C) or hot air.	S	$\leq$ 5	Pass
Marker Resistance		Oil-based marker MG-2110, dried ink, wiped with alcohol	/	Residue Classification: No Residue / Grade 1 / Grade 2	1
Chemical Resistance		Application of standard carburetor cleaning agent to the film surface for 1 minute.	/	No swelling	No swelling

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MAKO SATIN

Satin PPF

TECHNICAL SPECIFICATIONS

TEST ITEM		TEST METHOD	UNIT	STANDARD VALUE	TEST VALUE
Film Thickness	Aggregate Thickness	GB/T 6672	μm	266 $\pm$ 10	271
	Thickness of Working Layer			191 $\pm$ 10	196
Width		GB/T 6673	mm	1522 $\pm$ 2	1524
Length		Meter Counter	m/roll	15	15
Elastic Modulus		ASTM D-882	Kgf/cm ²	180 $\leq$ E $\leq$ 400	248.8
Tensile Strength		GB/T 17657-2013	MPa	$\geq$ 16	21.5
Elongation at Break	Repair Layer	ASTM D-882	%	$\geq$ 80	90
	Finished Product			$\geq$ 300	376.4
Adhesion Performance	Initial Peel Adhesion	FINAT3	N/in	20 $\leq$ F $\leq$ 25	22.5
	Loop Tack			15 $\leq$ F $\leq$ 20	15.5
	Peel Adhesion			25 $\leq$ F $\leq$ 35	31
Puncture Resistance	Puncture Force	GB/T 10004	N	$\geq$ 35	43
	Puncture Strength		MPa	$\geq$ 5	9
Optical Performance	Visible Light Transmission	GB/T 2410	%	$\geq$ 85	85.5
	UV Rejection	GB/T 2680	%	$\geq$ 85	88.2
	Haze	ASTM D1003	%	/	25.65
	Gloss	60° Gloss Tester	°	22 $\pm$ 5	25.4
	Hydrophobic	Hydrophobic Test Machine	°	$\geq$ 90	103.3
Self-Healing Performance		Tested with 10 strokes of fine copper brush at a load of 200 g/cm ² ; surface self-healed when exposed to hot water (~70 °C) or hot air.	S	$\leq$ 5	Pass
Marker Resistance		Oil-based marker MG-2110, dried ink, wiped with alcohol	/	Residue Classification: No Residue / Grade 1 / Grade 2	1
Chemical Resistance		Application of standard carburetor cleaning agent to the film surface for 1 minute.	/	No swelling	No swelling

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