

# SOMABLACK®

SOMABLACK® film is a light-shielding, anti-reflective black film for optical devices. It has a proven track record and trusted reliability for use in devices such as silver Digital Cameras, Mobile Phones, Silver-halide Cameras and in-vehicle lens units.

## Features

- SOMABLACK® is a polyester film mixed with carbon black. It has excellent dimensional stability and works well for punching work.
- With double-sided sand-matte finishing, light Reflection is reduced and by further special coating, electrical conductivity and sliding properties are added.
- SOMABLACK®-H has a particularly high light-shading property, comparable to silver-halide Cameras.
- SOMABLACK®-NR offers excellent reflection prevention, comparable to pile (nap) finishing.



## Product type and Applications

Applications	Features
Regular (SOMABLACK® R)	Double-sided sand matte finish for Spacer, Washer
High light blocking type (SOMABLACK® H)	Double-sided sand matte finish for Camera shutters, Apertures and other optical equipment
Non-reflective type (SOMABLACK® NR)	One-sided coating + one-sided sand matte (one-sided adhesive grade available) Anti-reflective material inside optical equipment and exterior parts
Coating type (SOMABLACK® C)	Double-sided coating, antistatic, sliding properties, heat-resistant

Grade	Property	Examples of Application
MD	Matte Finish	Camera shutters, diaphragms, spacers, washers, etc.
MDED	Matte Finish & Electric Conductivity	Camera shutters, diaphragms, spacers, washers, etc. that need the control of static electricity.
MDVD	Matte Finish & Electric Conductivity/Sliding Property	Camera shutters, diaphragms, zooming cylinders, etc. that need static electricity control and sliding property.

## Product List

Type	Grade		Thickness [μm]	Glossiness(60°) [%]	Optical Density	Surface resistivity [Ω/□]
SOMABLACK® R	25	MD	29	10.3	1.5	10 13 ≤
	38	MD	42	4.3	2.1	10 13 ≤
	50	MD	54	2.9	2.7	10 13 ≤
	75	MD	80	2.5	4.0	10 13 ≤
	100	MD	106	2.4	3.5	10 13 ≤
	100	M.D.E.D.	108	3.6	3.5	10 6
	188	MD	192	2.1	5.0≤	10 13 ≤
	188	M.D.E.D.	195	3.3	5.0≤	10 6
	250	MD	255	2.1	5.0≤	10 13 ≤
SOMABLACK® H	50	MD	54	2.8	5.0≤	10 13 ≤
		M.D.E.D.	56	3.9	5.0≤	10 6
SOMABLACK® NR	N25	-	53	0.5	3.2	10 5
	N50	-	83	0.3	4.8	10 5
	N100	-	134	0.3	5.0≤	10 5
	T50	-	100	0.3	4.8	10 5
SOMABLACK® C	12	VD	22	3.6	5.0≤	10 4
	25	VD2	33	3.6	5.0≤	10 4
	25	VD	42	2.8	5.0≤	10 4
	38	VD	55	2.5	5.0≤	10 4
	50	VD	70	2.4	5.0≤	10 4
	100	VD	118	3.6	5.0≤	10 4
	125	VD	152	3.0	5.0≤	10 4
	37	ED	37	1.0	5.0≤	10 5
	0816	HR	16	2.6	5.0≤	10 4
	1223	HR	23	0.7	5.0≤	10 4
	12	HR	25	0.9	5.0≤	10 4
	25	HR	40	0.8	5.0≤	10 4
	50	HR	65	0.7	5.0≤	10 4
	7500	HR	100	0.8	5.0≤	10 4

\*All values are representative.

\*The representative grades are listed. If the thickness or performance you require is not listed, please contact us.



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