

[All Products](#) / [Optics](#) / [Windows and Diffusers](#) / [Visible Windows](#)

SCHOTT AS 87 ECO Ultra-Thin Windows

See More by [SCHOTT Optical Components](#)



- High Level of Flexibility
- Ultra-Thin Thickness for Low Profile Designs
- Excellent Transmission from 250nm to >3μm

Common Specifications

Physical & Mechanical Properties

Bevel:	Protective as needed	Clear Aperture (%):	90
Thickness (mm):	0.10 ±0.01	Knoop Hardness (kg/mm²):	500.00
Poisson's Ratio:	0.22	Young's Modulus (GPa):	73.3

Optical Properties

Abbe Number (v_d):	59.5	Coating:	Uncoated
Index of Refraction (n_d):	1.504	Substrate:	AS 87 ECO
Surface Quality:	80-50	Wavelength Range (nm):	200 - 3200

Material Properties

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):	8.7	Density (g/cm³):	2.46
---	-----	------------------------------------	------

Technical Information

Products

Dia. (mm)	Dimensions (mm)	Thickness (mm)	Coating	Stock Number	Price	Buy
-	5.00 x 5.00	0.10	Uncoated	#20-199	S\$43.05 Volume Pricing	20+ In Stock
-	10.00 x 10.00	0.10	Uncoated	#12-292	S\$48.30 Volume Pricing	20+ In Stock
-	10.00 x 20.00	0.10	Uncoated	#12-293	S\$48.30 Volume Pricing	8 In Stock
-	10.00 x 30.00	0.10	Uncoated	#12-294	S\$48.30 Volume Pricing	16 In Stock
-	10.00 x 50.00	0.10	Uncoated	#12-295	S\$58.10 Volume Pricing	7 In Stock
-	10.00 x 100.00	0.10	Uncoated	#12-296	S\$58.10 Volume Pricing	14 In Stock

[#12-298 Clearance](#)



Clearance

Availability
is limited,
so buy
before
these
products
disappear.
Sorry, we
cannot
accept
returns.
Receive
up to 80%
off select
products.

-	12.70 x 25.40	0.10	Uncoated		S\$37.10 Volume Pricing	14 In Stock
---	---------------	------	----------	--	--	-------------

[#12-311 Clearance](#)



Clearance

Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.

-	12.70 x 63.50	0.10	Uncoated		S\$43.05 Volume Pricing	4 In Stock
---	---------------	------	----------	--	--	------------

-	20.00 x 20.00	0.10	Uncoated	#20-200	S\$51.10 Volume Pricing	Contact Us
---	---------------	------	----------	-------------------------	--	------------

-	25.40 x 25.40	0.10	Uncoated	#12-313	S\$58.10 Volume Pricing	20+ In Stock
---	---------------	------	----------	-------------------------	--	--------------

-	25.40 x 50.80	0.10	Uncoated	#12-314	S\$58.10 Volume Pricing	20+ In Stock
---	---------------	------	----------	-------------------------	--	--------------

-	25.40 x 76.20	0.10	Uncoated	#12-315	S\$58.10 Volume Pricing	20+ In Stock
---	---------------	------	----------	-------------------------	--	--------------

-	25.40 x 127.00	0.10	Uncoated	#12-316	S\$68.60 Volume Pricing	13 In Stock
---	----------------	------	----------	-------------------------	--	-------------

[#12-317 Clearance](#)



Clearance

Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.

-	25.40 x 254.00	0.10	Uncoated		S\$53.90 Volume Pricing	13 In Stock
---	----------------	------	----------	--	--	-------------

-	30.00 x 30.00	0.10	Uncoated	#20-201	S\$56.00 Volume Pricing	15 In Stock
---	---------------	------	----------	-------------------------	--	-------------

-	40.00 x 40.00	0.10	Uncoated	#20-202	S\$56.00 Volume Pricing	1 In Stock
---	---------------	------	----------	-------------------------	--	------------

-	50.00 x 50.00	0.10	Uncoated	#20-203	S\$60.90 Volume Pricing	20+ In Stock
---	---------------	------	----------	-------------------------	--	--------------

-	50.80 x 76.20	0.10	Uncoated	#20-204	S\$68.60 Volume Pricing	16 In Stock
---	---------------	------	----------	-------------------------	--	-------------

-	50.80 x 127.00	0.10	Uncoated	#20-205	S\$77.00 Volume Pricing	4 In Stock
---	----------------	------	----------	-------------------------	--	------------

-	50.80 x 254.00	0.10	Uncoated	#20-206	S\$86.10 Volume Pricing	20+ In Stock
---	----------------	------	----------	-------------------------	--	--------------

5.00	-	0.10	Uncoated	#20-207	S\$43.05 Volume Pricing	20+ In Stock
------	---	------	----------	-------------------------	--	--------------

10.00	-	0.10	Uncoated	#20-208	S\$48.30 Volume Pricing	20+ In Stock
-------	---	------	----------	-------------------------	--	--------------

12.50	-	0.10	Uncoated	#20-209	S\$48.30 Volume Pricing	7 In Stock
-------	---	------	----------	-------------------------	--	------------

15.00	-	0.10	Uncoated	#20-210	S\$48.30 Volume Pricing	17 In Stock
-------	---	------	----------	-------------------------	--	-------------

20.00	-	0.10	Uncoated	#20-211	S\$51.10 Volume Pricing	20+ In Stock
-------	---	------	----------	-------------------------	--	--------------

25.00	-	0.10	Uncoated	#20-212	S\$51.10 Volume Pricing	20+ In Stock
30.00	-	0.10	Uncoated	#20-213	S\$56.00 Volume Pricing	4 In Stock
40.00	-	0.10	Uncoated	#20-214	S\$56.00 Volume Pricing	20+ In Stock
50.00	-	0.10	Uncoated	#20-215	S\$60.90 Volume Pricing	17 In Stock



Copyright 2024, Edmund Optics Singapore Pte. Ltd, 18 Woodlands Loop #04-00, Singapore 738100

[PRIVACY POLICY](#) [COOKIE POLICY](#) [TERMS & CONDITIONS](#)

Phone: 1-800-363-1992 :

www.edmundoptics.com