

[All Products](#) / [Optics](#) / [Windows and Diffusers](#) / [UV and IR Windows](#)
TECHSPEC® Silicon (Si) Windows


- Transmission from 1.2 - 7 μ m
- Available Uncoated or AR Coated for 1.65 - 5 μ m
- Ideal for Weight Sensitive Applications

Common Specifications

Physical & Mechanical Properties

Bevel:	Protective as needed	Edges:	Fine Ground
Knoop Hardness (kg/mm²):	1,150.00	Parallelism (arcmin):	<3
Poisson's Ratio:	0.27	Young's Modulus (GPa):	140

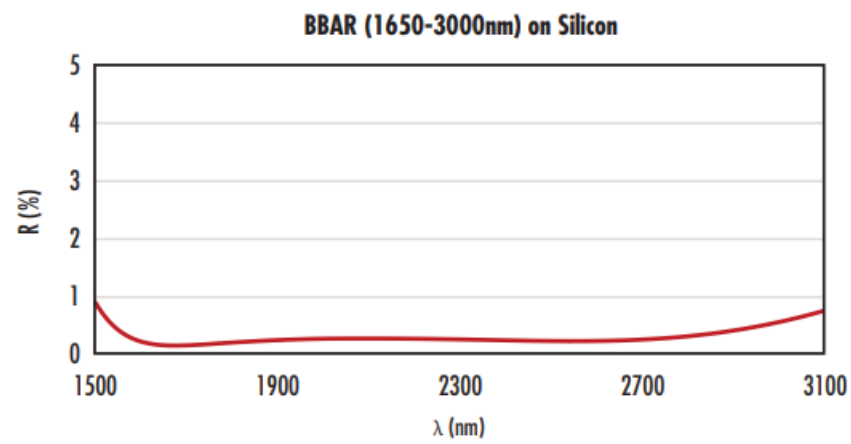
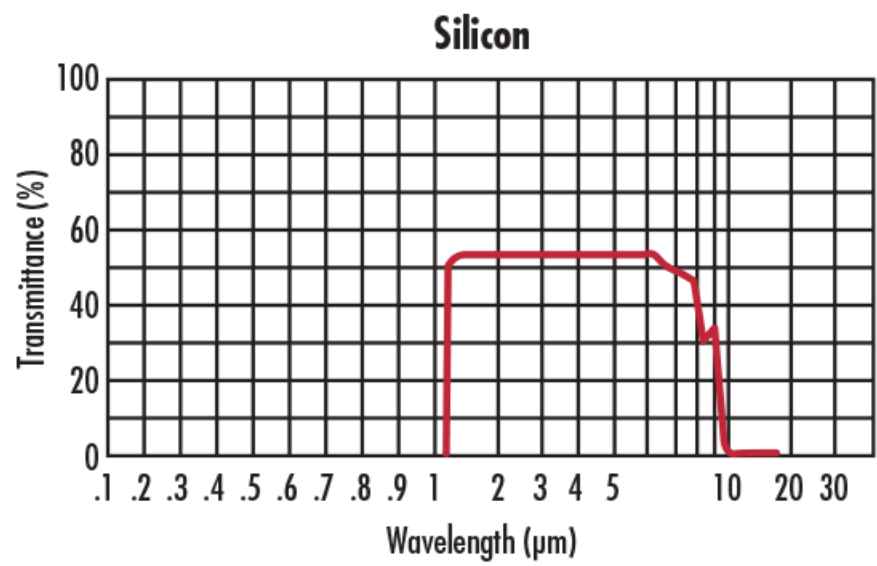
Optical Properties

Index of Refraction (n_d):	3.422 @ 5 μ m	Substrate:	Silicon (Si)
Surface Quality:	60-40		

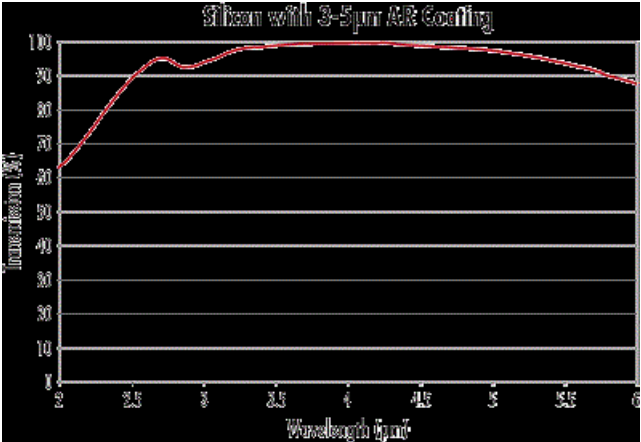
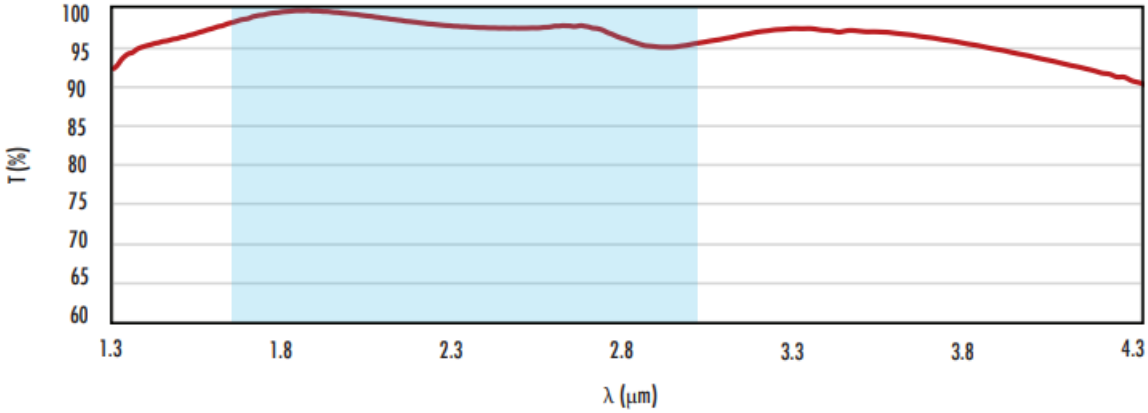
Material Properties

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):	2.55
Density (g/cm³):	2.33

Technical Information



Silicon with 1.65-3μm AR Coating



Products

Dia. (mm)	Thickness (mm)	Coating	Stock Number	Price	Buy
10.00	1.50	Uncoated	#68-521	£103.31 Volume Pricing	5 In Stock
10.00	1.50	BBAR (1650-3000nm)	#17-195	£124.32 Volume Pricing	Contact Us
10.00	1.50	BBAR (3000-5000nm)	#47-940	£131.33 Volume Pricing	20+ In Stock
12.50	2.00	Uncoated	#68-522	£112.94 Volume Pricing	17 In Stock
12.50	2.00	BBAR (1650-3000nm)	#17-196	£133.08 Volume Pricing	Contact Us
12.50	2.00	BBAR (3000-5000nm)	#47-941	£140.08 Volume Pricing	20+ In Stock
12.70	2.00	Uncoated	#20-017	£112.94 Volume Pricing	20+ In Stock
12.70	2.00	BBAR (1650-3000nm)	#20-027	£133.08 Volume Pricing	Contact Us
12.70	2.00	BBAR (3000-5000nm)	#20-034	£165.47 Volume Pricing	3 In Stock
25.00	1.00	Uncoated	#68-523	£140.08 Volume Pricing	20+ In Stock
25.00	1.00	BBAR (1650-3000nm)	#17-197	£172.47 Volume Pricing	1 In Stock
25.00	1.00	BBAR (3000-5000nm)	#68-524	£188.23 Volume Pricing	Contact Us
25.00	2.00	Uncoated	#68-525	£140.08 Volume Pricing	20+ In Stock
25.00	2.00	BBAR (1650-3000nm)	#17-198	£172.47 Volume Pricing	1 In Stock

25.00	2.00	BBAR (3000-5000nm)	#68-526	£188.23 Volume Pricing	11 In Stock
25.00	3.00	Uncoated	#68-527	£140.08 Volume Pricing	5 In Stock
25.00	3.00	BBAR (1650-3000nm)	#17-199	£172.47 Volume Pricing	1 In Stock
25.00	3.00	BBAR (3000-5000nm)	#47-942	£188.23 Volume Pricing	2 In Stock
25.40	1.00	Uncoated	#20-018	£140.08 Volume Pricing	20+ In Stock
25.40	1.00	BBAR (1650-3000nm)	#20-028	£172.47 Volume Pricing	6 In Stock
25.40	1.00	BBAR (3000-5000nm)	#20-035	£188.23 Volume Pricing	7 In Stock

[#20-019 Clearance](#)



Clearance

25.40	2.00	Uncoated	Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.	£140.08 Volume Pricing	13 In Stock
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[#20-029 Clearance](#)



Clearance

25.40	2.00	BBAR (1650-3000nm)	Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.	£172.47 Volume Pricing	3 In Stock
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25.40	3.00	Uncoated	#20-020	£140.08 Volume Pricing	Contact Us
25.40	3.00	BBAR (1650-3000nm)	#20-030	£172.47 Volume Pricing	8 In Stock
25.40	3.00	BBAR (3000-5000nm)	#20-038	£188.23 Volume Pricing	11 In Stock
30.00	2.00	Uncoated	#33-135	£192.61 Volume Pricing	10 In Stock
30.00	2.00	BBAR (1650-3000nm)	#17-200	£230.26 Volume Pricing	2 In Stock
30.00	2.00	BBAR (3000-5000nm)	#33-136	£257.40 Volume Pricing	3 In Stock
50.00	1.00	Uncoated	#68-528	£260.02 Volume Pricing	7 In Stock
50.00	1.00	BBAR (1650-3000nm)	#17-201	£308.18 Volume Pricing	4 In Stock
50.00	1.00	BBAR (3000-5000nm)	#68-529	£349.32 Volume Pricing	10 In Stock
50.00	2.00	Uncoated	#68-530	£260.02 Volume Pricing	Contact Us
50.00	2.00	BBAR (1650-3000nm)	#17-202	£308.18 Volume Pricing	7 In Stock

50.00	2.00	BBAR (3000-5000nm)	#68-531	£349.32 Volume Pricing	13 In Stock
50.00	3.00	Uncoated	#68-532	£260.02 Volume Pricing	20+ In Stock
50.00	3.00	BBAR (1650-3000nm)	#17-203	£308.18 Volume Pricing	20+ In Stock
50.00	3.00	BBAR (3000-5000nm)	#47-943	£349.32 Volume Pricing	15 In Stock
50.80	1.00	Uncoated	#20-023	£260.02 Volume Pricing	20+ In Stock
50.80	1.00	BBAR (1650-3000nm)	#20-031	£308.18 Volume Pricing	4 In Stock
50.80	1.00	BBAR (3000-5000nm)	#20-039	£349.32 Volume Pricing	3 In Stock

[#20-024 Clearance](#)



Clearance

50.80	2.00	Uncoated	Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.	£260.02 Volume Pricing	20+ In Stock
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[#20-032 Clearance](#)



Clearance

50.80	2.00	BBAR (1650-3000nm)	Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.	£308.18 Volume Pricing	5 In Stock
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[#20-040 Clearance](#)



Clearance

50.80	2.00	BBAR (3000-5000nm)	Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.	£349.32 Volume Pricing	5 In Stock
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50.80	3.00	Uncoated	#20-026	£260.02 Volume Pricing	20+ In Stock
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50.80	3.00	BBAR (1650-3000nm)	#20-033	£308.18 Volume Pricing	1 In Stock
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50.80	3.00	BBAR (3000-5000nm)	#20-041	£349.32 Volume Pricing	9 In Stock
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