

[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

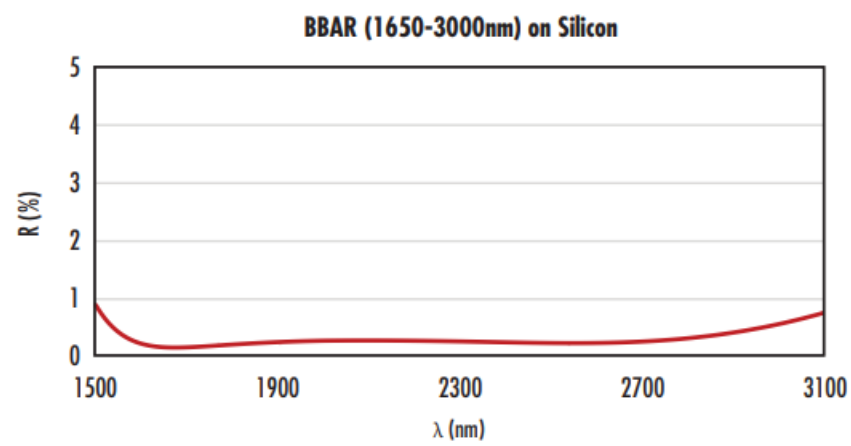
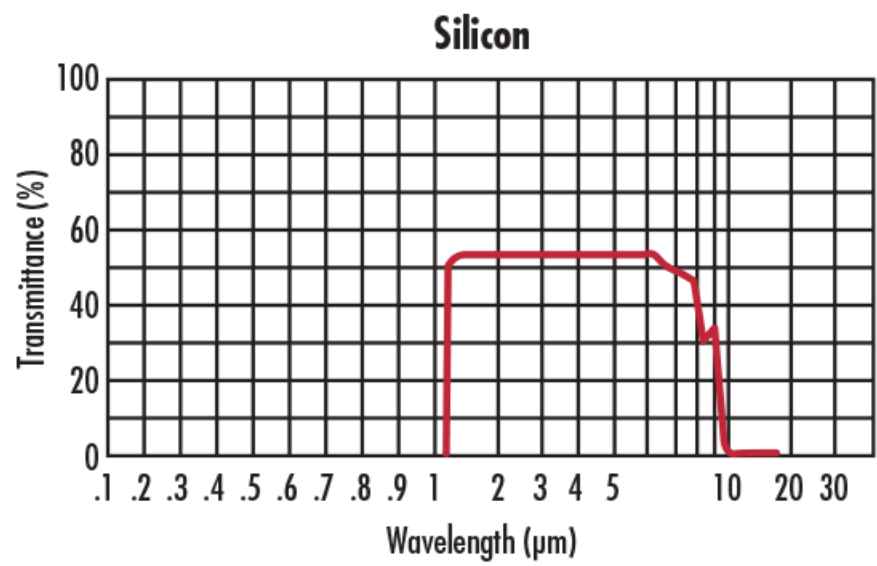
Optical Properties

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

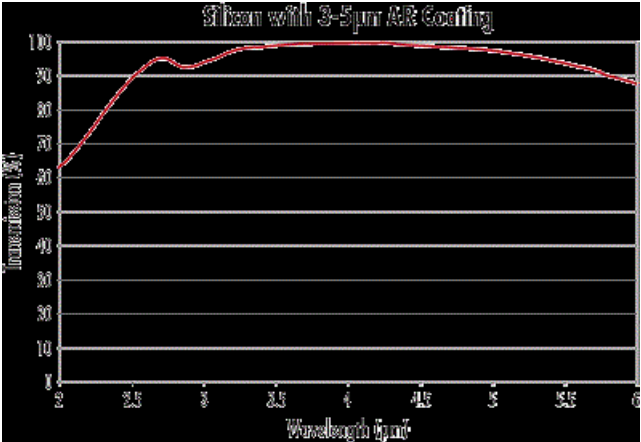
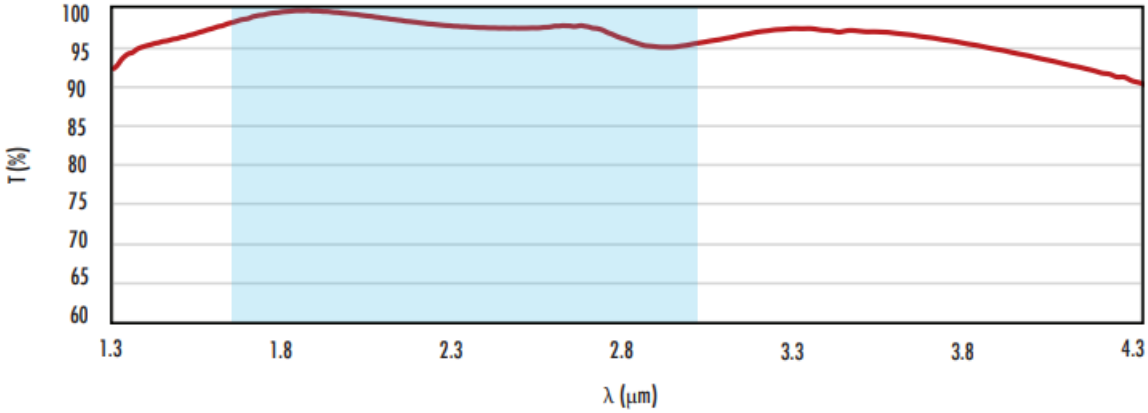
Material Properties

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	€121,54 Volume Pricing	5 In Stock
10.00	1.50	BBAR (1650-3000nm)	#17-195	€146,26 Volume Pricing	Contact Us
10.00	1.50	BBAR (3000-5000nm)	#47-940	€154,50 Volume Pricing	20+ In Stock
12.50	2.00	Uncoated	#68-522	€132,87 Volume Pricing	17 In Stock
12.50	2.00	BBAR (1650-3000nm)	#17-196	€156,56 Volume Pricing	Contact Us
12.50	2.00	BBAR (3000-5000nm)	#47-941	€164,80 Volume Pricing	20+ In Stock
12.70	2.00	Uncoated	#20-017	€132,87 Volume Pricing	20+ In Stock
12.70	2.00	BBAR (1650-3000nm)	#20-027	€156,56 Volume Pricing	Contact Us
12.70	2.00	BBAR (3000-5000nm)	#20-034	€194,67 Volume Pricing	3 In Stock
25.00	1.00	Uncoated	#68-523	€164,80 Volume Pricing	4 In Stock
25.00	1.00	BBAR (1650-3000nm)	#17-197	€202,91 Volume Pricing	1 In Stock
25.00	1.00	BBAR (3000-5000nm)	#68-524	€221,45 Volume Pricing	Contact Us
25.00	2.00	Uncoated	#68-525	€164,80 Volume Pricing	20+ In Stock
25.00	2.00	BBAR (1650-3000nm)	#17-198	€202,91 Volume Pricing	1 In Stock

25.00	2.00	BBAR (3000-5000nm)	#68-526	€221,45 Volume Pricing	11 In Stock
25.00	3.00	Uncoated	#68-527	€164,80 Volume Pricing	5 In Stock
25.00	3.00	BBAR (1650-3000nm)	#17-199	€202,91 Volume Pricing	1 In Stock
25.00	3.00	BBAR (3000-5000nm)	#47-942	€221,45 Volume Pricing	3 In Stock
25.40	1.00	Uncoated	#20-018	€164,80 Volume Pricing	20+ In Stock
25.40	1.00	BBAR (1650-3000nm)	#20-028	€202,91 Volume Pricing	6 In Stock
25.40	1.00	BBAR (3000-5000nm)	#20-035	€221,45 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.	€164,80 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.	€202,91 Volume Pricing	3 In Stock
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25.40	3.00	Uncoated	#20-020	€164,80 Volume Pricing	Contact Us
25.40	3.00	BBAR (1650-3000nm)	#20-030	€202,91 Volume Pricing	8 In Stock
25.40	3.00	BBAR (3000-5000nm)	#20-038	€221,45 Volume Pricing	11 In Stock
30.00	2.00	Uncoated	#33-135	€226,60 Volume Pricing	10 In Stock
30.00	2.00	BBAR (1650-3000nm)	#17-200	€270,89 Volume Pricing	2 In Stock
30.00	2.00	BBAR (3000-5000nm)	#33-136	€302,82 Volume Pricing	7 In Stock
50.00	1.00	Uncoated	#68-528	€305,91 Volume Pricing	7 In Stock
50.00	1.00	BBAR (1650-3000nm)	#17-201	€362,56 Volume Pricing	4 In Stock
50.00	1.00	BBAR (3000-5000nm)	#68-529	€410,97 Volume Pricing	10 In Stock
50.00	2.00	Uncoated	#68-530	€305,91 Volume Pricing	Contact Us
50.00	2.00	BBAR (1650-3000nm)	#17-202	€362,56 Volume Pricing	7 In Stock

50.00	2.00	BBAR (3000-5000nm)	#68-531	€410,97 Volume Pricing	13 In Stock
50.00	3.00	Uncoated	#68-532	€305,91 Volume Pricing	20+ In Stock
50.00	3.00	BBAR (1650-3000nm)	#17-203	€362,56 Volume Pricing	17 In Stock
50.00	3.00	BBAR (3000-5000nm)	#47-943	€410,97 Volume Pricing	15 In Stock
50.80	1.00	Uncoated	#20-023	€305,91 Volume Pricing	20+ In Stock
50.80	1.00	BBAR (1650-3000nm)	#20-031	€362,56 Volume Pricing	4 In Stock
50.80	1.00	BBAR (3000-5000nm)	#20-039	€410,97 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.	€305,91 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.	€362,56 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.	€410,97 Volume Pricing	5 In Stock
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50.80	3.00	Uncoated	#20-026	€305,91 Volume Pricing	20+ In Stock
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50.80	3.00	BBAR (1650-3000nm)	#20-033	€362,56 Volume Pricing	1 In Stock
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50.80	3.00	BBAR (3000-5000nm)	#20-041	€410,97 Volume Pricing	9 In Stock
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