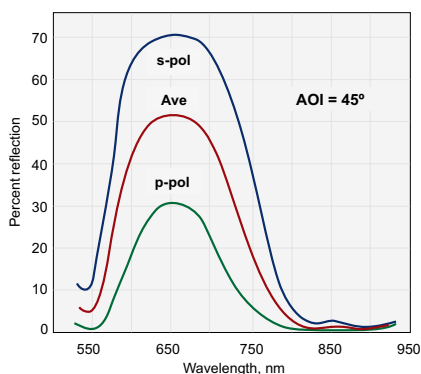


PARTIAL REFLECTING COATINGS

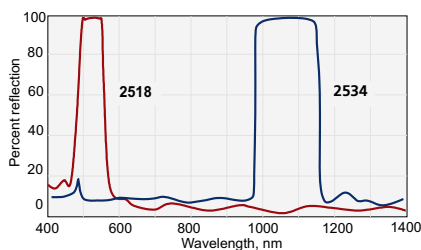
Partial reflecting coatings are durable multilayer dielectric coatings intended for efficient beam splitting as well as for output coupling in laser cavities. They are used in high power laser applications. Please refer to the Substrates for Laser Mirrors or Windows section for substrates for these coatings.



Wavelength, nm	Reflectivity, %	Coating number		Recommended substrate	Damage threshold, J/cm ² in 10 ns
		AOI = 0°	AOI = 45°		
248	25±3	2012-i0	2012-i45	UV FS	1
	50±3	2015-i0	2015-i45		
	75±3	2017-i0	2017-i45		
266	25±3	2022-i0	2022-i45	UV FS	1
	50±3	2025-i0	2025-i45		
	75±3	2027-i0	2027-i45		
308	25±3	2032-i0	2032-i45	UV FS	1
	50±3	2035-i0	2035-i45		
	75±3	2037-i0	2037-i45		
355	25±3	2042-i0	2042-i45	UV FS	2
	50±3	2045-i0	2045-i45		
	75±3	2047-i0	2047-i45		
400	25±3	2052-i0	2052-i45	UV FS	3
	50±3	2055-i0	2055-i45		
	75±3	2057-i0	2057-i45		
532	25±3	2062-i0	2062-i45	UV FS, BK7	3
	50±3	2065-i0	2065-i45		
	75±3	2067-i0	2067-i45		
633	25±3	2069-i0	2069-i45	UV FS, BK7	1.5
	50±3	2070-i0	2070-i45		
	75±3	2071-i0	2071-i45		
800	25±3	2072-i0	2072-i45	UV FS, BK7	3
	50±3	2075-i0	2075-i45		
	75±3	2077-i0	2077-i45		
852	25±3	2079-i0	2079-i45	UV FS, BK7	1
	50±3	2080-i0	2080-i45		
	75±3	2081-i0	2081-i45		
1064	25±3	2082-i0	2082-i45	UV FS, BK7	3
	50±3	2085-i0	2085-i45		
	75±3	2087-i0	2087-i45		
1550	25±3	2089-i0	2089-i45	UV FS, BK7	2
	50±3	2090-i0	2090-i45		
	75±3	2091-i0	2091-i45		

Contact us for other wavelengths and AOI's values.

LASER HARMONIC SEPARATORS



These harmonic separators comprise a dichroic reflector coating and should be applied on the front surface of high precision windows. They are used to separate the various harmonic components of frequency

doubled laser systems by selective spectral reflection and transmission. In all cases one wavelength is selected out by reflection and the other wavelengths are transmitted.

Wavelength, nm	AOI = 0°			AOI = 45°			Recommended substrate	Damage threshold, J/cm ² in 10 ns
	R, %	T, %	Coating number	R, %	T, %	Coating number		
355 / 532+1064	>99.0	>93	2510-i0	>99.0	>90	2510-i45	UV FS	1
380-420 / 720-820	>99.0	>90	2514-i0	>99.0	>90	2514-i45	UV FS, BK7	1
532 / 1064	>99.5	>95	2518-i0	>99.5	>95	2518-i45	UV FS, BK7	1
600 / 1200	>99.5	>95	2522-i0	>99.5	>95	2522-i45	UV FS, BK7	2
800 / 400	>99.5	>90	2526-i0	>99.5	>90	2526-i45	UV FS, BK7	2
1064 / 400-700	>99.5	>85	2530-i0	>99.5	>80	2530-i45	UV FS, BK7	2
1064 / 532	>99.5	>93	2534-i0	>99.5	>90	2534-i45	UV FS, BK7	2

Contact us for other wavelengths and AOI's values.