

Acktar Coatings Laser Induced Damage Thresholds

Summary of Presently Available Test Data – November, 2011

wave length	coating	substrate	LIDT	
			Kw/sqcm	J/sqcm
193 nm pulsed – 10ns	Magic Black	SS – 0.65 mm	9,500	0.096
	Fractal Black	SS – 0.65 mm	8,000	0.081
		Al – 3 mm	8,600	0.086

			LIDT – w/sqcm	
			30 sec	60 sec
532nm 1064 nm quasi CW	Magic Black	SS – 0.65 mm	600	500
	Fractal Black	SS – 0.65 mm	400	400
		Al – 3 mm	exceeds 800 (test limit)	

			LIDT – w/sqcm
10,600 nm CW	Fractal Black		exceeds 3,000 (test limit)

			LIDT – J/sqcm	
			1-on-1	10-on-1
EUV - approx 13nm	Magic Black		> 3.5	slightly below 3.5