

Different qualities of Quartz viewports

Allectra offers uncoated viewports in 3 different qualities.

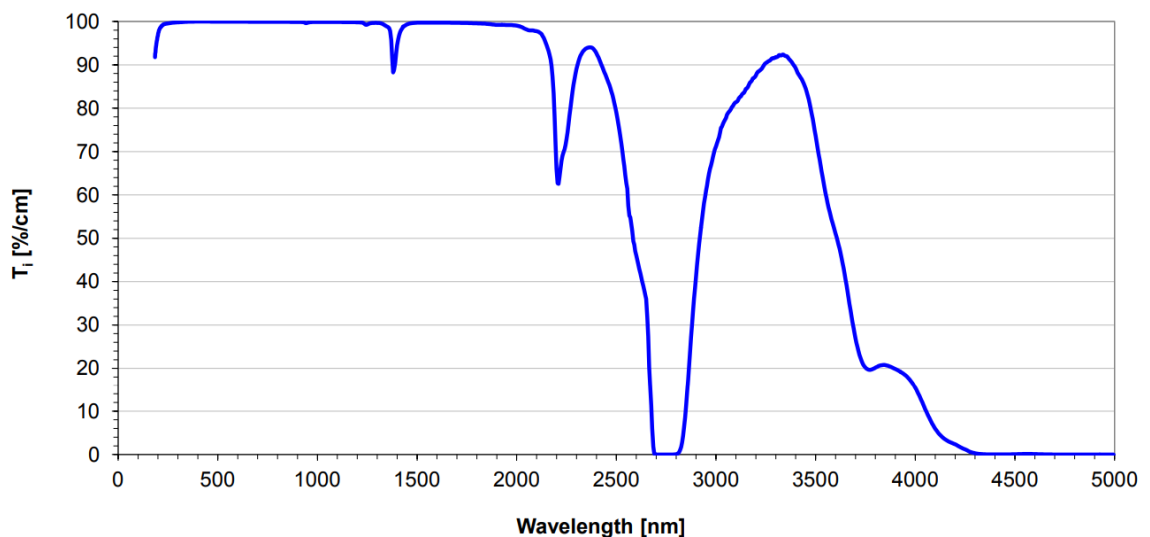
UV quality is for general purpose

DUV uses the same basic material, but in a high purity version and with better surface finish

EX Version is a material with extended transmission in the UV

Other material grades can be offered on request

	UV	DUV	EX
Name	UV-Grade	Deep UV Grade	Excimer Grade
Material	Corning HPFS 7980		Corning ARF 193
Leak rate	<2 10 ⁻¹⁰ mbar l / s		
Parallelism	<30 arc min	<10 arc sec	<10 arc sec
Flatness	---	¼ lambda @632nm	¼ lambda @632nm
Surface finish, Polish (scratch/dig)	40/20	20/10	20/10
Homogeneity grade	F	A	A
Inclusion class	2	0	0
Useable Transmission range	200 ... 2000nm		180 ... 2000nm
Internal transmission	>88% /cm @185nm >99.8% /cm @ 248nm	>88% /cm @185nm >99.8% /cm @ 248nm	>99.5% /cm @ 193nm



Internal Transmission curve of Corning HPFS 7980 (Source: Corning)