

Description

Tumble (CX)-DQ

Sample	Std Before	Std After	Std Delta	Test Before	Test After	Test Delta
1	0.09	4.19	4.10	0.14	0.87	0.73
2	0.07	4.51	4.44	0.16	1.49	1.33
3				0.20	0.85	0.65
4				0.17	0.90	0.73
5				0.10	0.89	0.79
6				0.15	1.03	0.88
Avg Std Haze Delta		4.27				
Avg Test Haze Delta		0.85				
Avg Tumble Ratio		5.01				
Std Deviation		1.17				

Notes: Average Ratio = Avg Std Lens / Avg Test Lens

The ratio equals the number of times more scratch resistant the sample lens is when compared to an uncoated CR-39 (standard) lens.

The ratio is calculated by dividing the "Test Lens" average delta into the "Standard Lens" average delta.

Difference between "Before" and "After".

Tumble

This abrasion test was created based on actual clinical study data of normal wear for glass, uncoated plastic lenses and coated plastic lenses. It is used by most lens manufacturers in the US and Europe and has repeatedly exhibited good correlation to actual wear experience. Sample lenses are placed into a barrel approximately 9" (28cm) wide and 18" (44cm) in diameter. Media is placed in the barrel, which will abrade the lenses.