

TEST RESULTS and REPORT

for

SOMO Optical

O-SOM053007

by



COLTS Laboratories maintains A2LA accreditation to ISO/IEC 17025 for the tests listed on Certificate # 1612.01. Any tests not included on this certificate have been identified on the appropriate test result page.

- Results in this report only relate to the samples analyzed.
- This report shall not be reproduced, except in full, without written approval from COLTS Laboratories.
- Unless otherwise requested, test samples will be discarded 60 days from the report date.

COLTS Laboratories

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A2LA Accredited-Cert .#1612.01

SOMO Optical

O-SOM053007

Tumble-DQ - 1 Test(s)

Authorizing Signature:  Lab Manager
Name and Title

EZ Tint Polycarbonate Generation 2

Tumble

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**RESULTS
 REPORT**

A2LA Accredited Certificate # 1612.01

SOMO Optical

Sample:

EZ Tint Polycarbonate Generation 2

For Test:

Tumble-DQ

Colts Internal Control Number:

O-SOM053007-01-01

Sample Group Description

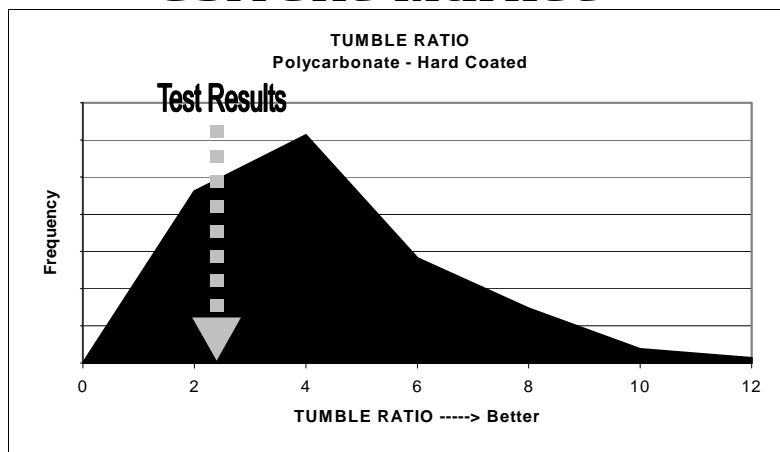
Samples		Substrate/Material			Coatings (Hard Coat,AR)	
One sample group		Material:	Polycarbonate		Type:	HC
Manufacturer:	SOMO	Index of Refraction:			Comments:	
Lens Type:	FSV	Report Date:	6/6/2007		EZ Tint Polycarbonate Generation 2	
Lens density:	NA	Report Valid thru:	12/6/2007			
Requested by:	Wes Riggs	Lab Temp (°C) :	23	Lab Rh :		

Test Number	Standard Lenses			Test Lenses			Ratio Standard/Test
	Before	After	Delta	Before	After	Delta	
O-SOM053007-01-01-01	0.00	4.01	4.01	0.07	1.71	1.64	2.38
O-SOM053007-01-01-02	0.00	3.80	3.80	0.05	1.58	1.53	2.55
O-SOM053007-01-01-03				0.06	1.70	1.64	2.38
O-SOM053007-01-01-04				0.09	1.52	1.43	2.73
O-SOM053007-01-01-05				0.09	1.75	1.66	2.35
O-SOM053007-01-01-06				0.08	1.79	1.71	2.28

Average Standard Delta 3.91 Average Test Delta 1.60

Average Ratio 2.44

Current Market



The COLTS Laboratories lens standards used for this test were a 4 diopter base curve rather than the specified 6 diopter base curve. This was done because the test sample lenses were only available in 4 diopter base curve. Test results may be slightly different than if using the 6 diopter base curve but tests within COLTS Laboratories confirms that the difference will be slight.

Understanding the numbers

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RESULTS REPORT

ACME Optical

For Test: **Tumble**

COLTS Control Number: **O-ACME101801-01-01**

Lens Sample Group Description

Lens Samples		Substrate (Lens Material)		Coatings (Hard Coat, AR, etc)	
One Lens Sample Group		Lens Material:	Hard Resin	Type:	AR
Manufacturer:	ACME Optical	Index of Refraction:		Comments:	
Lens Type:	FSV	Lens Density:			
Requested By:	John Doe	Report valid thru:	00/00/2002		

Test Item	Standard Lenses			Test Lenses			Ratio Standard/Test
	Before	After	Delta	Before	After	Delta	
O-ACME101801-01-01-01	0.09	4.27	4.18	0.05	1.87	1.82	2.41
O-ACME101801-01-01-02	0.11	4.72	4.61	0.04	1.58	1.54	2.85
O-ACME101801-01-01-03				0.06	1.51	1.45	3.03
O-ACME101801-01-01-04				0.06	2.11	2.05	2.14
O-ACME101801-01-01-05				0.06	1.90	1.84	2.39
O-ACME101801-01-01-06				0.06	1.91	1.85	2.38
Average Standard Delta			4.39	Average Test Delta		1.76	

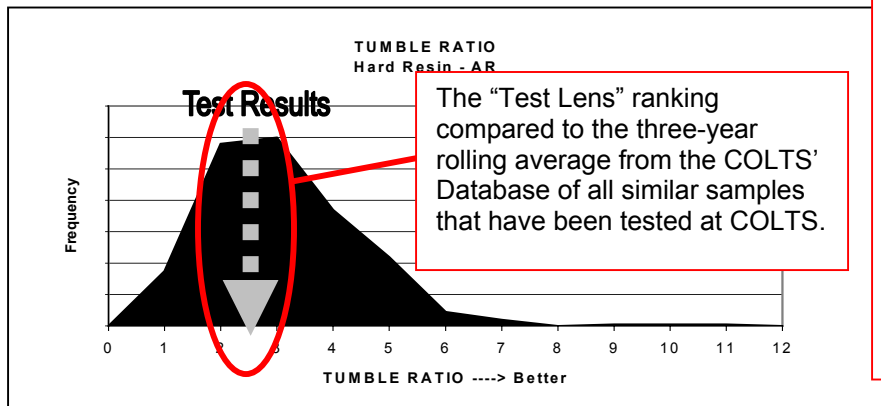
Due to process changes that occur in a lens manufacturing process the accuracy of the data reported is limited to 6 months.

Difference between "Before" and "After".

Average Ratio

2.50

Current Market



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 created by dividing the "Test Lens" average delta into the "Standard Lens" average Delta.

Tumble - In this abrasion test that 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 in is placed in the barrel, which will abrade the lenses.