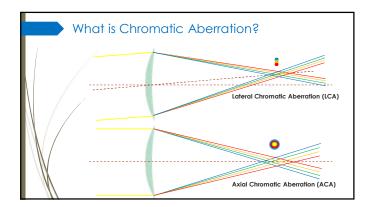


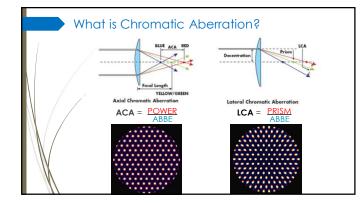
Compensated Powers

"Compensation" does NOT change the ordered power...

...compensation indicates how the ordered power will be seen by the lensometer!









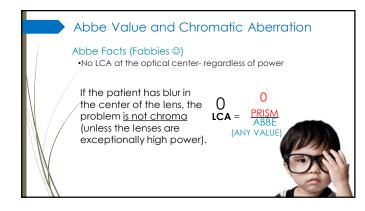
Abbe Value and Chromatic Aberration

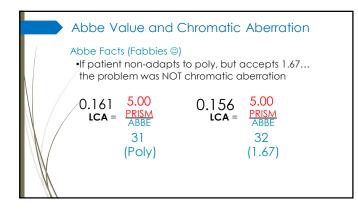
Abbe Facts (Fabbies ©)

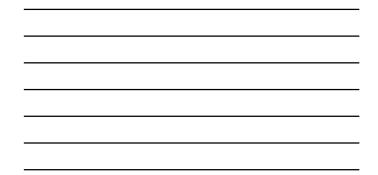
Plano lenses produce ZERO chromatic aberration
No LCA at the optical center- regardless of power (if blur occurs looking straight ahead, its not LCA)
Human eye has >1.00 diopter of ACA
Studies show >0.12D CA may be noticeable to some (>3.75D of power/prism is required for 0.12D CA)
If patient non-adapts to poly, but accepts 1.67... the problem was NOT chromatic aberration

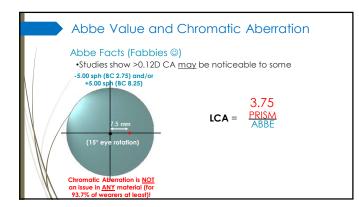
•AR does NOTHING to reduce chromatic aberration





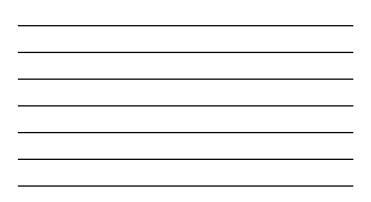


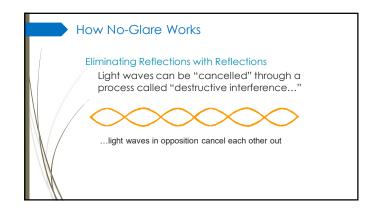




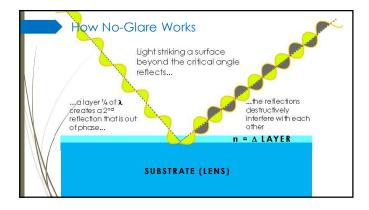


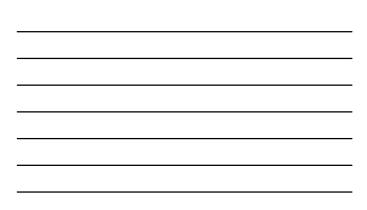
Abbe Value and Chromatic Aberration			
Abbe Facts (Fabbies ©) •Studies show >0.12D CA <u>may</u> be noticeable to some			
CR-39 (58) = 0.06Δ LCA = 20/21 Trivex (44) = 0.09Δ LCA = 20/22 Polycarb (30)=0.13Δ LCA = 20/23 1.60 MR-8 (41)= 0.09Δ LCA = 20/22 1.67 MR-7 (32)= 0.12Δ LCA = 20/23	LATERAL CA 0.05 Δ 0.10 Δ 0.15 Δ 0.20 Δ 0.25 Δ	VISUAL ACUITY 20/21 20/22 20/24 20/26 20/28	
Chromatic Aberration is <u>NOT</u> an issue in <u>ANY</u> material (for 93.7% of wearers at least)! Bleet of Chromatic Digersion of Just and Visual Active Million of Octoms & Provide Conference and Page	0.30 Δ 0.35 Δ 0.40 Δ 0.45 Δ 0.55 Δ 0.55 Δ	20/31 20/34 20/39 20/44 20/51 20/60 20/75	

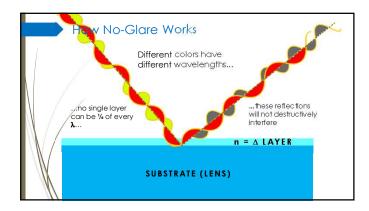


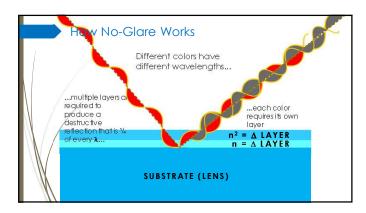




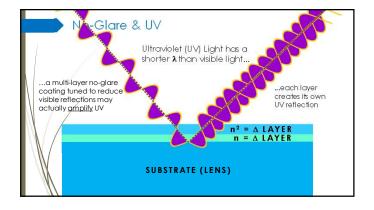




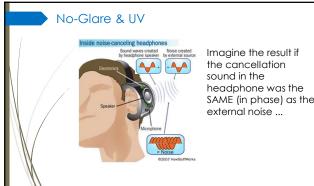




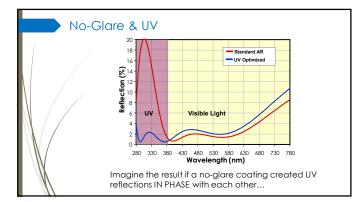


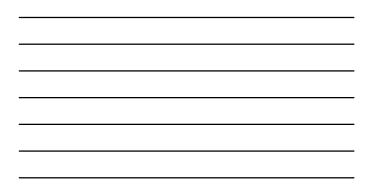


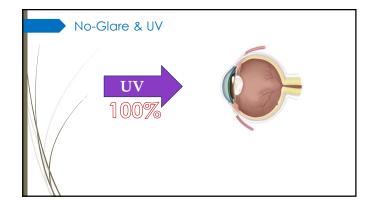


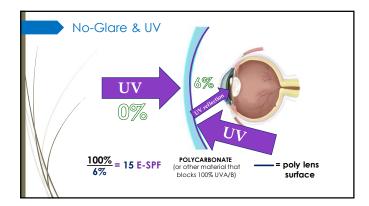


headphone was the SAME (in phase) as the external noise ...

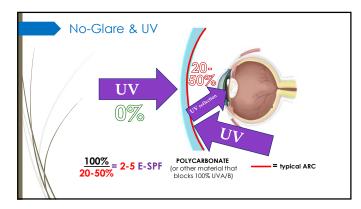




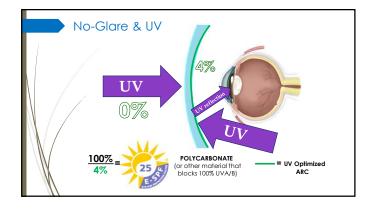


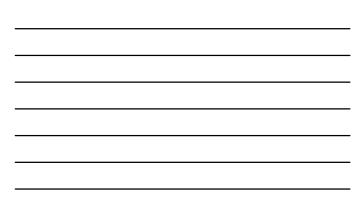












MERICAN NATIONAL STANDARD ANSI 250.1-2010 ADD Control of the state-of-the-ard of the optimized benefits the shift in utilization from mass-produced lenses to a basic dependence upon custom-processed lenses at the laboratory level. It does not represent tolerances that dependence the state-of-the-ard of the optimaline laboratory but provides quality goals for new pristine lenses prepared to individual prescription. The individual performance parameters insultaneously in any given lens or mounted pair. The fact that, under rigorous application of this standard, a significant number of speciales (approximate) 25%, based upon industry data) will not achieve all parameters simultaneously, must be accepted as a reflection of the state-of-the-ard. As such, this standard expresses desirable technical concepts that provide a frame of reference for safely and effectiveness and is not designed as a medication in the standard expresses desirable technical concepts that provide a frame of reference for safely and effectiveness and is not designed as a medication.and what ISN'T it?

	roduced with compensations to a		correction, the	e tolerances in	the tables
, s	lause 5 apply to those values spe	ecified by the manufa	cturer and no	t to the prescr	ibed RX.
1 2	5.1.1 Distance Refractive	Power (Back Vertex	Power)		
1	5.1.1.1 Single Vision a	nd Multifocal Lense	s		
/	Table 1 – Tolerance on D	Distance Refractive Lenses)		e-Vision and	Multifocal
1	Sphere Meridian Power	Tolerance on Sphere Meridian Power	Cylinder ≥ 0.00 D ≤ - 2.00 D	Cylinder > - 2.00 D ≤ - 4.50 D	Cylinder > - 4.50 D
	From - 6.50 D to + 6.50 D	± 0.13 D	± 0.13 D	± 0.15 D	± 4%
	Stronger than ± 6.50 D	± 2%	± 0.13 D	± 0.15 D	±4%
	5.1.1.2 Progressive Ac Table 2 – Tolerance on D		ower (Progr	essive Additi	on Lenses
W	Sphere Meridian Power	Tolerance on Sphere Meridian Power	Cylinder ≥ 0.00 D ≤ - 2.00 D	Cylinder > - 2.00 D ≤ - 3.50 D	Cylinder > - 3.50 D
110	From -8 00 D to + 8 00 D	± 0.16 D	± 0.16 D	± 0.18 D	± 5%
WA .					