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**HI INDEX (1.60, 1.67, 1.70 & 1.74)**

Hi index typically refers to products with an index higher than 1.58 and has become a catchall phrase encompassing 1.60, 1.67, 1.70 and 1.74 index lenses. High index lenses require flatter curves than their lower index counterparts, resulting in thinner and lighter lenses. Furthermore, these are readily available in aspheric lenses and often come standard in many hi index products, particularly in 1.67, 1.70 and 1.74. While not necessarily lighter in weight, they offer the thinnest lens profiles and are available in a variety of lens designs. Most lens manufactures recommend an AR coating for these lenses to reduce internal and external reflections. Aspheric lenses reduce spatial distortion, reduce magnification and further help maintain a thin and flat lens profile.

**PROS:**

- Superior optical qualities
- Thinner computer-designed lenses eliminate distortion
- Greatly enhanced cosmetic appearance
- Lighter weight for unsurpassed comfort
- Better scratch resistance than polycarbonate
- Impact resistance is five times that of conventional plastic or glass

**CONS:**

- Susceptible to backside and inner surface reflections (correctable with AR coating)
- Easier to scratch than glass
- Slightly higher cost than polycarbonates
- Impact resistance is slightly less than polycarbonate

Material	Index	ABBE	Specific Gravity	UVB/ UVA
Plastic	1.50	58	1.32	100% 90%
Poly	1.58	30	1.20	100% 100%
Trivex	1.53	44	1.11	100% 100%
1.60 (MR-8)	1.60	41	1.30	100% 100%
1.60 (MR-6)	1.60	36	1.34	100% 100%
1.67 (MR-7)	1.67	32	1.35	100% 100%
1.67 (MR-10)	1.67	32	1.37	100% 100%
1.70	1.70	36	1.41	100% 100%
1.74	1.74	33	1.47	100% 100%