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PLASTIC

Developed by PPG, 60 years ago this is arguably the most commonly used lens material today. Available in a wide variety of lens designs, from single vision to progressive lenses. A much lighter lens material (approximately 50% lighter) than glass, however, is far less scratch resistant than glass and often must be coated to improve its scratch resistant characteristics

PROS:

- Lighter than glass
- Readily tintable
- Less likely to fog
- Low coat

CONS:

- Susceptible to scratches (correctable by coating)
- Lower index of refraction makes it less suitable for higher-powered prescriptions

| Material | Index | ABBE | Specific Gravity | UVB/ UVA |
|--------------|-------|------|------------------|--------------|
| Plastic | 1.50 | 58 | 1.32 | 100% 90% |
| Poly | 1.59 | 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% |