## Sunglass Lens

For many years, glass was the most commonly used material in eyeglass lenses. Its principal advantage is that it resists scratching; its main disadvantage is that it is brittle and breakable.

Since 1972, when the Food and Drug Administration issued a regulation that all sunglass and prescription lenses must be shatter-resistant, use of plastic lenses has increased dramatically; today the majority of sunglass, corrective and safety lenses sold in the U.S. are made of plastic. Plastic lenses typically weigh only half as much as glass, they can be readily shaped to conform to facial contours, and they offer far better absorption of ultraviolet rays. But even with delicate handling, many types of plastic lenses develop visibility-reducing scratches. Until recently, the best plastic available fell far short of glass in scratch resistance.

Foster Grant Corporation, Leominster, Massachusetts, a major producer of sunglasses, spent more than a decade of research effort looking for a coating that would provide plastic lenses with glass-like scratch resistance while maintaining the advantageous properties of plastics. The answer eventually found combined NASA technology with Foster Grant's own technology. The NASA contribution was a highly abrasion-resistant coating developed by Ames Research Center as a means of protecting plastic surfaces of aerospace equipment from the sometimes harsh environments to which they are subjected. The result is the Foster Grant SPACE TECH Lens, manufactured under license from NASA. Illustrated in the accompanying photos, the SPACE TECH Lens surpasses glass in scratch resistant properties and has five times better scratch resistance than the most popular corrective lenses. The new lens is available in the 1984 Foster Grant line.





