Infrared Plastic

OPTICAL

Refractive Index at n_D 1.53 Refractive Index at 8-14 um 1.52 Refractive Index at >15 um 1.48

Transmission Range, microns 8-12 and 15-40

THERMAL

Thermal Linear Expansion, deg C^{-1} (11...13) x 10^{-5} Service Temperature, deg C 100

MECHANICAL

Shore Hardness D60-70
Tensile Modulus, Pa (4...12) x 10⁸
Flexural Modulus (7...18) x 10⁸

CHEMICAL

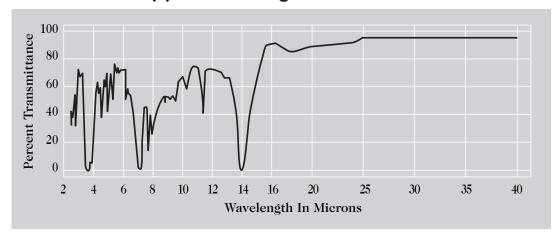
Effect of Organic Solvents little below 60 deg C

Effect of Strong Alkalies very little
Effect of Weak Alkalies very little

Effect of Strong Acids attacked by oxidizing acids

Effect of Weak Acids very little
Effect of Sunlight none

Transmittance τ (λ) vs. Wavelength λ



Custom sizes and specifications are available