



Typical Properties of ViziPlexx™ I

Density

g/cc 1.07

Impact Resistance

(0.125" thick)

1 inch steel ball, 50 inches pass

2700 gram wt, 0.25 inch radius tip, 42" drop pass

Copper BB, 5.14 grain @ 465 f/sec No penetration

MIL-STD-662F Ballistics Test

22 cal. 17 grain FSP, V50

0.25 inch thick 1131 ft/sec*

0.50 inch thick 1590 ft/sec

(0.25 and 0.50" thick)

22 cal. 40 grain bullet @1000 ft/sec No penetration

Optical

Light Transmission, % (>460nm) 88.0

Refractive Index 1.52

Abbe Number 42**

Physical Properties

D Durometer Hardness 79-80

Glass Transition Temp. °C, (DMA) -55

Tensile Strength, psi (ASTM D638) 6,000

Elongation, % 150

Flexural Modulus, psi (ASTM D790) 120,000

Vicat Softening Temperature, °C 184

Solvent Resistance

Acetone excellent

Diesel Fuel excellent

Hydraulic Fluid excellent

*Polycarbonate = 889 ft/sec

**Polycarbonate = 30