



Typical Properties of ViziPlexx™ II

Density

g/cc 1.12

Impact Resistance

0.125 inch thickness:

1 inch steel ball, 50 inches pass
900, 1800 & 2700 gram wt, 42" drop pass
Copper BB, 5.14 grain @ 465 f/sec No penetration

0.063 inch (1.6mm) thickness:

1 inch steel ball, 50 inches pass
900 gram wt, 42" drop pass

1" thick sample

-9mm, 147gr, JHP @ ~931 ft/sec Embedded/no cracks
-357mag, 158gr, JSP @~1228 ft/sec Embedded/no cracks

Optical

Light Transmission, % (>460nm) 91.0
Refractive Index 1.51
Abbe Number 58

Physical Properties

D Durometer Hardness 85
Tensile Strength, psi 5,500
Tensile Modulus, psi (ASTM D638) 219,000
Elongation, % 86
Flexural Modulus, psi (ASTM D790) 198,000
Vicat Softening Temperature, °C 103

Exterior Exposure, 5° elevation, WV, 2 years

D Hardness No Change
900g weight, 42" drop pass
Gloss/Color No change

Solvent Resistance

Acetone excellent
Diesel Fuel excellent
Hydraulic Fluid excellent