



Cast Urethane Materials

We can convert your CAD files into 3D objects, dimensionally accurate in multiples very fast, using the cast urethane method. There is wide range of material options available, from soft elastomeric Shore A materials to rigid, fire retardant Shore D materials.

Tolerances: Typical mold can yield from 10-20 parts before breakdown of the rubber mold material. The rubber molds are as accurate as the rapid prototyping models ($\pm 0.005 - 0.010$ ") on critical to function features; however, tolerances of ± 0.002 " have been achieved.

Shore D Rigid

Turn a single rapid prototype into multiples, with better mechanical and cosmetic qualities. Materials range from polystyrene-like to polycarbonate-like, in various part sizes. Cast in color, custom molded-in texture are available, as are secondary operations, painting, decorating, including pad printing and silk screen transfer graphics. Threaded fasteners are also available with a variety of options from pressed-in brass inserts to threaded helicoids.

Product Fire Retardant:	PE 8959
Cured Hardness:	86 Shore D
Specific Gravity :	1.18
Izod Impact Strength:	0.68
Tensile Strength:	9,030 psi
Flexural Strength:	14,401 psi
Glass Transition Temp:	(Tg): 227 °F
Applications:	Includes: housings, enclosures, bezels, and hand held instruments, lenses, windows, light pipes, clear enclosures, and server bezels.

Disclaimer: All material property data and tolerance specifications reflect typical values and should be viewed only as a guide. Actual values will vary by specific material composition and conditions. All tolerance specifications reflect the approximate range of a process's capabilities and should be viewed only as a guide. Actual capabilities are dependent upon manufacturing, equipment, material, and part requirements.