



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 A Flexible

Mimic rubbers, silicones, and thermo-plastics elastomers. Stock durometers range from 15A to 85A, with specific materials available by special request. Cast in color, custom texture, and over molding are all available using this process.

Product:	PE 7280
Mix Ratio By Weight:	100:80
Pot Life @_77 °F :	25 - 30 min.
Cured Hardness:	80 Shore A
Specific Gravity:	1.05
Tensile Strength:	2,785 psi
Elongation @ Break:	800 %
Applications:	Includes: custom bumpers, gaskets, grips, keypads, over molds, and strain reliefs.

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.