



## Shore A Polyurethane Casting Materials

Last Updated: 24 July 2008

Please call Kim, Bob, or Arlen for samples. We have other materials available beyond what's listed on the spec sheet, please ask us if you have a specific need or application.

Material	PG125	PG140	PG165	PG180	PG195	PG555	PG565	PG575	PG595
Shrink Factor* (in./in.) for mold master)	1.008	1.002	1.002	1.002	1.002	1.002	1.001	1.003	1.002
Shore Hardness	25A +/- 5	45A +/- 5	65A +/- 5	83A +/- 3	95A +/- 5	55A +/- 2	65A +/- 5	70A +/- 5	90A +/- 5
Elongation % ASTM D-638	-	610	500	400	375	-	-	-	-
Elongation % ASTM D-412	1,100	-	-	-	-	385	150	300	180
Tensile Strength at Break (psi) ASTM D-638	-	500	900	1,500	2,700	-	-	-	-
Tensile Strength, (psi) ASTM D-412	345	-	-	-	-	700	425	1,370	4,000
Tear Strength, (pli) ASTM D-624	45	-	-	-	-	110	65	66	375
Natural Resin Color	Light Yellow	Black or Clear Amber	Black or Clear Amber	Black or Clear Amber	Black or Clear Amber	Translucent Pale Yellow	Clear	Clear	Clear
Comments	B	B	B	B	B	B	A, C	A, C	A, C

\* Shrink factor is a combination of silicone mold shrinkage and casting material shrinkage. Extremely tight tolerance or large parts may need to wait until the mold shrink is complete. If you have questions, please discuss with your Project Manager.

**Comment A:** Best for custom coloring - talk with your Project Manager regarding the many colors we have already matched.

**Comment B:** Custom coloring can be difficult, may not be possible.

**Comment C:** Material is ductile and feels similar to vinyl, returns more slowly to its original position after flexing.

**Note:** The above information is based on laboratory tests conducted by the material manufacturer. The material is tested per ASTM standard tests, meaning the test samples are not typical production wall thickness, so your part's values may differ from the manufacturer's values listed above.

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