

Samples available by request

Material	PG189	PG606	PG878	PG851	PG8902	PG8952
Shrink Factor ** (in./in.) for mold master)	1.003	1.002	1.001	1.001	1.001	1.001
Shore Hardness	80D +/- 5	65D +/- 3	78D +/- 2	78D +/- 2	85D +/- 5	85D +/- 5
Elongation at Break % ASTM D-638	5.8 *	100 *	155	8	21.6	24.5
Tensile Strength at Break (psi) ASTM D-638	-	3,300 *	4,230	-	-	-
Tensile Strength at Yield (psi) ASTM D-638	7,300 *	-	8,300	7,200	10,010	10,650
Tensile Modulus, (psi) ASTM D-638	145,000	-	127,000	210,000	371,155	381,675
Flexural Strength, (psi) ASTM D-790	11,600 *	2,700	5,060	10,300	15,574	15,445
Flexural Modulus, (psi) ASTM D-790	314,000 *	41,000	129,000	260,000	386,612	424,275
Izod Impact, (notched, ft-lb./in.) ASTM D-256	0.81	2.2 No Break	1.2	0.65	2.1	1.6
Heat Deflection Temperature ASTM D-648-82	133° F @ 66 psi	230° F @ 66 psi	190° F @ 66 psi	210° F @ 66 psi	190° F @ 66 psi	179° F @ 66 psi
Natural Resin Color	White	Clear Amber	Water Clear	White	White	Translucent Off-White
Comments	A, B	F	E	A, G, H	D, H, I	C, D, H, I

* Cured 30 days at 70° F

** 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.

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

B Like HIPS (High Impact PolyStyrene)

C Meets UL 94 V-0 Flame Retardant (at .100" wall (2.6mm)) Custom coloring is not available for this material.

D Custom coloring is not an option- parts can be painted if color is important.

E Used for light pipes, lenses, windows, etc. Colors can be "tinted," but opaque colors not recommended due to the high volume of color additive required, and the resulting degradation of the material properties.

F Excellent impact resistance, can be used in living hinge applications for limited number of a flexes.

G Very durable material, closest to ABS, best for snap fits.

H The shrinkage of some of the resins are less predictable than our other resins. Please consult your Estimator or Project Manager if you are interested in using these materials.

I The 8900 materials are some of the best ABS-like resins available. However, they can be more aggressive with the silicone, which means the expected mold life is around 2/3 of the other materials. Also, there is an additional post cure to the parts which can add an additional day to your lead time. Ask your Estimator or Project Manager for a specific estimate about mold life and delivery for your part,

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.

Prologenic Guarantees Customer Satisfaction: We will do whatever it takes to assure your satisfaction with our product. That means that, in the unlikely event that you're dissatisfied, we will fix it, replace it, or refund your money. Because of the time-sensitive nature of your project, and our commitment to your success, we're happy to extend this guarantee a full 30 days from your order's last ship date.