

## Shore A Silicone Prototype Casting Materials

Last Updated: 18 May, 2010

### Samples available by request

Material	PG20-S	PG100-S	PG44-S	PG50-S	PG60-S	PG268-S
<b>Shore Hardness</b>	<b>22A +/- 3</b>	<b>33A +/- 4</b>	<b>45A +/- 3</b>	<b>52A +/- 3</b>	<b>60A +/- 4</b>	<b>77* +/- 4</b>
<b>Elongation %</b> <small>ASTM D-412</small>	<b>425 +/- 30</b>	<b>345 +/- 25</b>	<b>250 +/- 25</b>	<b>200 +/- 25</b>	<b>200 +/- 25</b>	<b>125 +/- 25</b>
<b>Tensile Strength, (psi)</b> <small>ASTM D-412</small>	<b>525 +/- 30</b>	<b>470 +/- 30</b>	<b>600 +/- 50</b>	<b>750 +/- 50</b>	<b>900 +/- 90</b>	<b>850 +/- 100</b>
<b>Tear Strength, (ppi)</b> <small>ASTM D-624</small>	<b>120 +/- 20</b>	<b>70 +/- 10</b>	<b>120 +/- 20</b>	<b>70 +/- 20</b>	<b>75 +/- 10</b>	<b>75 +/- 10</b>
<b>Silicone Type</b>	<b>Platinum</b>	<b>Platinum</b>	<b>Platinum</b>	<b>Platinum</b>	<b>Platinum</b>	<b>Platinum</b>
<b>Natural Silicone Color</b>	<b>Translucent</b>	<b>Off-White</b>	<b>Translucent</b>	<b>Tan</b>	<b>Tan</b>	<b>Tan</b>

\* PG268-S - Shore hardness of 70 +/- 4 can be achieved with alternative processing.

**Mold life**, since we're using machined plastic tools, is essentially unlimited.

The silicones listed above are for *prototype* silicones, which are gravity-fed into acrylic tools. Additional silicones are available, if you have a specific requirement please ask your Estimator or Sales Manager.

Our Connecticut facility offers production-grade silicones, including LSR. Please ask your Sales Manager or Estimator for more information.

**Color Matching** is possible, but not as versatile as with our cast urethanes. If a particular color is desired, ask your Project Manager what color approximation options are available for your material.

The above information is based on laboratory tests conducted by the material manufacturer.

**Protogenic 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.

Protogenic creates prototype parts as aids in visualization, and for the testing of form, fit, and function. The materials used in the construction of these parts are durable enough for the testing of form, fit, and function. They are not generally suitable for use as components in products which will be distributed to the general public. They are sold to our Customers with the specific understanding of the material properties and limitations. Please note that in most cases, these materials are not UV stable, not UL rated, and not FDA approved- please discuss your application with your project manager if you have any questions about the material used for your prototypes.