



# STOCKWELL ELASTOMERICS

MANUFACTURING SOLUTIONS THROUGH ENGINEERED MATERIALS

**Product:**  
Platinum Catalyzed HCR



**Related Web Page:**  
<https://www.stockwell.com/solid-silicone-data-sheets/>

**Stockwell Value Proposition:**

**Design & Engineering**

Staff engineers comprehend design challenges and are available to help select materials and manufacturing processes that best fit specific application needs.

**Material Solutions**

Stockwell Elastomerics has strategically partnered with industry leaders such as Rogers Corp., Saint-Gobain, 3M, Wacker Silicones and Momentive Silicones to ensure the highest quality materials are used. Stockwell Elastomerics has a comprehensive inventory of engineered materials designed and manufactured to meet requirements of the most demanding gasketing applications.

**Pre-Production through**

**Manufacturing** Combining in-house CNC die cutting, waterjet cutting, injection molding, compression molding and adhesive lamination with comprehensive inventory, Stockwell Elastomerics can fulfill fast-turn prototyping, pre-production and full production

## ESS4722 Series

**Compound:** Platinum Catalyzed HCR Silicone

**Product Description:**

The ESS4722 series is a high purity solid silicone series that is designed to maintain higher tensile strength and higher tear strength compared to traditional silicone foam or sponge material. This material comes in a 20 and a 30 durometer option for applications that require low closure force as well as a non-optically clear, translucent, 40 durometer option. Due to this series being a platinum catalyzed High Consistency Rubber (HCR), its low durometer options display low oil secretion.

Stockwell Elastomerics offers this material in 36" widths at continuous lengths. Standard thickness options range from 0.010" to 0.125" with different thicknesses available upon request. Pre-production and full production parts made from ESS4722 series material can be both waterjet and die cut, with or without an adhesive backing.

| Product                       | ESS4722-20         | ESS4722-30          | ESS4722-40          | Test Method |
|-------------------------------|--------------------|---------------------|---------------------|-------------|
| Durometer Shore "A"           | 22 +/- 5           | 30 +/- 5            | 40 +/- 5            | ASTM D2240  |
| Color                         | Black              | Off-White           | Translucent         | -           |
| Temperature Low               | -54°C (-80°F)      | -54°C (-80°F)       | -54°C (-80°F)       | -           |
| Temperature High              | 232°C (450°F)      | 232°C (450°F)       | 232°C (450°F)       | -           |
| Elongation, max %             | 500                | 916                 | 825                 | ASTM D412   |
| Tear "B", ppi                 | 100                | 166                 | 165                 | ASTM D624   |
| Specific Gravity, g/cc        | 1.07               | 1.10                | 1.13                | ASTM D297   |
| Compression Set, % (25% comp) | <10 (RT / 70hrs)   | <5 (70°C / 70hrs)   | <5 (70°C / 70hrs)   | ASTM D395   |
|                               | <12 (70°C / 70hrs) | <32 (150°C / 70hrs) | <32 (150°C / 70hrs) | ASTM D395   |
| Tensile Strength, psi         | 900                | 1100                | 1350                | ASTM D412   |