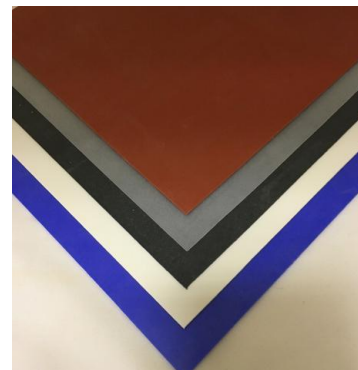




## Compound Technical Data Sheet S721 Silicone – Uncured Sheet

S721 silicone from pd3 Technologies is a 50 durometer, high strength silicone compound with a peroxide catalyst cure. It is optimized for toughness, chemical resistance, and high temperature performance. It has a shelf life of one year after mixing at 70°F, and longer at 40°F. S721 is stocked at 0.03” thickness in blue color. Large orders can be 0.02” – 0.25” thickness, any color. It is high tack, resulting in strong self bonding and edge seal bonding.

S721 is recommended to be cured under vacuum in an oven, in an autoclave, or in a compression mold for a minimum of 30 minutes at 330F. Curing at 350F for 2 hours is typical. A 2-hour oven post cure (no vacuum) at 350F is recommended but not required for all applications. After it has been cured, it may be repaired or bonded with uncured S721 or with RTV100 series room temperature curing silicones. For technical, quality, or product safety questions, please contact pd3 Technologies.



Physical Property	Test Method	Typical Value
Specific Gravity	ASTM D297	1.15
Hardness (Durometer, Shore A)	ASTM D2240	50
Elongation (%)	ASTM D412	840%
Tensile Strength (psi)	ASTM D412	1360
Tear Strength (ppi)	ASTM D612, Die B	220
Temperature Use Range	NA	-100° to 450° F
Compression set (70 hrs. 212F)	ASTM D395 Method B	9%
Coefficient of Thermal Expansion	NA	1.5x10 <sup>-4</sup>
Color / Tack	NA	Blue / High
Storage & Lifetime	Room temperature for up to 12 months	

Typical values should not be considered minimum values for qualification purposes. Users are encouraged to conduct their own testing to determine the suitability for their application.