



Overview

TS750R50 is Canyon's PFA encapsulated 75 shore A durometer, orange silicone. The PFA Teflon® outer shell offers extreme chemical resistance while the silicone core offers resilient elastic sealing performance.

Features & Benefits

- Excellent heat resistance & high temp stability
- Best chemical resistance
- PFA shell & silicone core is FDA compliant per 21 CFR 177.1550 and USP Class VI
- PFA shell is 3A 20-17

Service Temperature

- -62°C to 260°C (-80°F to 500F)

Specification

- Silicone: ZZR765A and ZZR765B

Test Data

Table 1. Silicone Physical Properties

Test	Requirements	Results
Color	Orange	Orange
Hardness, Shore A	75+/-5	72
Tensile Strength, psi (MPa)	900 min	1200 (8.3)
Elongation, %	150% min	200%

Extreme
Chemical
Resistant

High
Temp

Low
Temp



Table 2. Silicone Heat Aging – 70 hrs at 225°C

Test (Change)	Results
Hardness, Shore A	0
Tensile Strength, %	-12
Elongation, %	-20

Table 3. PFA Physical Properties

Test (Change)	Results
Hardness, Shore D	55
Tensile Strength, psi (MPa)	3625 (25)
Elongation	300%
Specific Gravity	2.15
Compressive Strength, psi (MPa)	870 (6)
Dielectric Breakdown Strength, V/mil	550
Volume Resistivity, Ohm-cm	10 ¹⁸

TS750R50 is available now on the Canyon Components [online store!](#)

Looking for specific chemical compatibilities or desire more material information? [Please Contact Us!](#)