

Overview

TS750R01 is Canyon's FEP encapsulated 75 shore A durometer, hollow orange silicone. The FEP Teflon® outer shell offers extreme chemical resistance while the silicone core offers resilient elastic sealing performance.

Features & Benefits

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

Service Temperature

- -62°C to 205°C (-80°F to 400F)

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%

The information provided in this data sheet is based on test results and our combined expertise. This data sheet is intended to serve only as a reference and is not considered a guarantee.



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

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

Table 3. FEP Physical Properties

Test (Change)	Results
Hardness, Shore D	55
Tensile Strength, psi (MPa)	3600 (24.8)
Elongation	310%
Flexural Modulus, psi (MPa)	95000 (655)
Tensile Modulus, psi (MPa)	60000 (413)
Compressive Strength, psi (MPa)	2200 (15.2)
Dynamic Coefficient of Friction	0.2
Specific Gravity	2.15
Deformation Under Load, D621	1.8

TS750R01 is now available on the Canyon Components [online store](#)!

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