Technical Data Sheet

Tufel™ III 92506

Description

Tufel III rubber series are biocompatible(1), two component silicone rubber compounds. 92506 and 92656 are 50 and 65 durometer addition curable silicone elastomers that offer low compression set and high resilience with no post bake required for most applications. The combination of these properties may lead to longer service life in highly mechanical applications. The 92506 and 92656 elastomers can be used to produce extruded and calendered parts with excellent permanent set resistance and should be considered for applications such as peristaltic pump tubing, gaskets and seals.

Key Features and Benefits

- Low compression set
- Excellent elastic memory
- Biocompatible(1)
- No post baking required for most applications
- Low volatile bases minimize porosity
- Peroxide-free cure system
- Broad processing window
- High output rates
- Tight surface cure
- Non-blooming
- Translucency
- Low hysteresis

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Typical Physical Properties

Typical Characteristics of Uncured Tufel III Silicone Rubber – 92006 Series

Properties	**92506**	**92656**
Specific Gravity	1.12	1.16
Appearance	Translucent	Translucent
Polymer Classification (ASTM D-1418)	VMQ	VMQ
Williams Plasticity Range (ASTM D-926)	200-300	210-310

Typical Physical Properties of Tufel III Silicone Rubber – 92006 Series Catalyzed with 1.0 pphr of CA-6 per 99 pphr of base compound

ASTM Method	Press Cure - 10 minutes @ 177°C (350°F)	92506	92656
D-2240	Hardness, Durometer A	50	65
D-412	Tensile Strength, psi	1100	1300
	MPa	7.6	8.9
D-412	Elongation, %	450	350
D-624	Tear Resistance, Die B, ppi	100	120
	KN/m	17.5	21.0
D-412	100% Modulus, psi	200	375
	MPa	1.4	2.6
D-395	Compression Set, % 22 hrs. @ 177°C (350°F)	30	31
D-2632	Bayshore Resilience	60	61
ASTM Method	Post Cure - 2 hrs @ 177°C (350°F)	92506	92656
D-395	Compression Set, % 22 hrs. @ 177°C (350°F)	15	14

Potential Applications

Healthcare

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- Fluid and drug delivery tubing
- Volumetric infusion pumps
- Enteral pumps
- Ambulatory pumps
- Hose/tubing used in pharmaceutical production
- Gaskets, seals and valves

Consumer Goods

- Tubing used for dispensing of food and beverages
- Gaskets, seals and valves

General Industrial

- Tubing used in chemical/industrial processing plants
- Tubing used in laboratory peristaltic pumps
- Gaskets, seals and valves

Regulatory Compliance

- A representative sample of an analogous product to Tufel ll 92506 met the requirements of USP Class VI and ISO 10993 under Good Laboratory Practices (GLP).
- Listed as UL 94 HB (File No. E205753)
- The ingredients are listed in the BfR recommendation XV “Silicones” (1)
- Compositionally compliant with 21 CFR 177.2600 – Rubber articles intended for repeated use(2)

(1) Producer of the final article needs to test and confirm that the final product meets the extraction limits of BfR XV or corresponding EU legislation.
(2) It is the responsibility of the user to determine that the final product complies with the extractive limitations and other requirements of 21 CFR 177.2600, under their specific manufacturing procedures

Patent Status
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Product Safety, Handling and Storage
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