

Tufel™ II 94306

Description

Tufel II Silicone Rubber Compounds 94206 and 94306 are 20 and 30 durometer low volatile fast-cure addition cured silicone elastomers for extrusion and calendering. They may be used by themselves or blended to intermediate durometers. Applications include extruded tubings, profiles and calendered sheets.

Key Features and Typical Benefits

- LV Bases Minimize Porosity and Post Cure
- Totally Peroxide-Free Cure System
- Broad Processing Window
- High Output Rates
- High Tear Strength
- Tight Surface Cure
- Non-blooming
- Translucency

Typical Physical Properties

TYPICAL CHARACTERISTICS OF UNCURED TUFEL II SILICONE RUBBER - 94006 SERIES

PROPERTIES	94206	94306
Specific Gravity	1.07	1.10
Appearance	Translucent	Translucent

Polymer Classification (ASTM D-1418)	VMQ	VMQ
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TYPICAL RHEOLOGICAL PROFILE - MONSANTO RHEOMETOR MODEL 100 WITH
3° ARC @ 177°C (350°F)

Minimum Viscosity	4.5-8.5	4-7
T1, Minutes	0.1-0.4	0.1-0.4
7 Min. Torque (lb./in.)	22-35	21-34

TYPICAL PHYSICAL PROPERTIES OF TUFEL II SILICONE RUBBER - 94006
SERIES

ASTM METHOD	PRESS CURE - 10 MINUTES @ 177°C (350°F)	94206	94306
D-2240	Hardness, Durometer A	22	28
D-412	Tensile Strength, psi	1060	1350
	MPa	7.3	9.3
D-412	Elongation, %	1000	1100
D-624	Tear Resistance, Die B, ppi	125	170
	KN/M	22	30
D-412	Tensile Modulus @ 100% psi	63	85
	MPa	0.4	0.6

Regulatory Compliance

- A representative sample of an analogous product to Tufel II 94306 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

Standard copy to come

Product Safety, Handling and Storage

Standard copy to come

Limitations

Standard copy to come

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