

Tufel™ II 94706

Description

Tufel II Silicone Rubber Compounds 94406, 94506, 94606, 94706 are 40-70 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	94406	94506	94606	94706
Specific Gravity	1.11	1.15	1.19	1.22
Appearance	Translucent	Translucent	Translucent	Translucent

Polymer Classification (ASTM D-1418)	VMQ	VMQ	VMQ	VMQ
---	-----	-----	-----	-----

TYPICAL RHEOLOGICAL PROFILE - MONSANTO ODR WITH 3° ARC @ 150°C
(300°F)

Minimum Viscosity	1-6	3-7	3-8	3-9
T1, Minutes	0.1-0.4	0.1-0.4	0.1-0.3	0.1-0.4
7 Min. Torque (lb./in.)	33-48	34-53	45-60	45-60

TYPICAL PHYSICAL PROPERTIES OF TUFEL II SILICONE RUBBER - 94006
SERIES

ASTM METHOD	PRESS CURE - 10 MINUTES @ 177°C (350°F)	94406	94506	94606	94706
D-2240	Hardness, Durometer A	39	48	56	71
D-412	Tensile Strength, psi	1300	1348	1230	1320
	MPa	9.0	9.2	8.5	9.1
D-412	Elongation, %	900	900	740	630
D-624	Tear Resistance, Die B, ppi	225	250	240	320
	KN/M	39	44	42	56
D-412	Tensile Modulus @ 100% psi	140	190	245	500
	MPa	1.0	1.3	1.7	3.4
	POST CURE 2 HOURS @ 177°C (350°F)				
D-2240	Hardness, Durometer A	43	53	61	73
D-412	Tensile Strength, psi	1350	1400	1250	1350
	MPa	9.3	9.7	8.6	9.3
D-412	Elongation, %	800	850	680	600
D-624	Tear Resistance, Die B, ppi	235	270	270	330
	KN/M	41	47	47	58
D-412	Tensile Modulus @ 100% psi	170	225	300	530
	MPa	1.2	1.6	2.1	3.7
D-395	Compression Set, % 22 hrs. @ 150°C (300°F)	20	20	20	20

Regulatory Compliance

- A representative sample of an analogous product to Tufel II 94706 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

Contact Information

Email

commercial.services@momentive.com

Telephone

Americas	Latin America	EMEAI- Europe, Middle East, Africa & India	ASIA PACIFIC
+1 800 295 2392 Toll free* +704 805 6946 Direct Number	Brazil +55 11 4534 9650 Direct Number	Europe +390510924300 Direct number	China 800 820 0202 Toll free +86 21 3860 4892 Direct number
All American countries	Mexico +52 55 2169 7670 Direct Number	India, Middle East & Africa + 91 44 71212207 Direct number *All Middle Eastern countries, Africa, India,	Japan +81 3 5544 3111 Direct number Korea +82 2 6201 4600

For literature and technical assistance, visit our website at: www.momentive.com

DISCLAIMER:

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier’s products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier’s standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

*Tufel™는 Momentive Performance Materials Inc.의 상표입니다.

The use of the “™” symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies. Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.