

Tufel™ II 94305

Product Description

Tufel II 94305 Rubber Compounds 94205 and 94305 are 20 and 30 durometer low volatile, fast-cure, addition cured silicone elastomers for molding. They may be used by themselves or blended to intermediate durometers. Applications include fabricated molding that require short cycle time, deep section cures, and parts with low extractable requirements.

Key Features and Typical Benefits

- Low impact on mechanical property deterioration
- Low emission
- Medium viscosity
- Non-reactive towards isocyanates
- Co-surfactant capability in conventional foam based on TDI
- LV Bases Minimize Post Cure Times
- Totally Peroxide-Free Cure System
- Significant Reduction in Molding Cycle Systems
- Lower Molding Temperature Range (150-166°C) (300-330°F)
- Superior Mixed Shelf Life
- Tight Surface Cure
- Non-blooming
- Translucency

Typical Physical Properties

Typical characteristics of uncured Tufel II silicone rubber - 94005 series

PROPERTIES	94205	94305
Specific Gravity	1.07	1.10
Appearance	Translucent	Translucent
Polymer Classification (ASTM D-1418)	VMQ	VMQ

Typical properties are average data and are not to be used as or to develop specifications.

Typical rheological profile - Monsanto rheometer model 100 with 3° arc @ 177°C (350°F)

Minimum Viscosity	3.8-6.0	4-7
T1, Minutes	0.30-0.45	0.12-0.70
7 Min. Torque (lb./in.)	19-29	21-34

Typical physical properties of Tufel II silicone rubber - 94005 series Catalyzed with 1.0 pphr of CA-5 per 99 pphr of base compound

ASTM METHOD	PRESS CURE - 10 MINUTES @ 177°C (350°F)	94205	94305
D-2240	Hardness, Durometer A	22	28
D-412	Tensile Strength, psi	1200	1350
	MPa	8.3	9.3
D-412	Elongation, %	1000	1050
D-624	Tear Resistance, Die B, ppi	125	170
	KN/M	22	30
D-412	Tensile Modulus @ 100% psi	63	87
	MPa	0.4	0.6

Regulatory Compliance

- A representative sample of an analogous product to Tufel II 94305 met the requirements of USP Class VI.
- Compositionally compliant with 21 CFR 177.2600 – Rubber articles intended for repeated use⁽¹⁾

- 1) 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

General Considerations for Use

NA

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment, if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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