

Tufel™ II 94205

Description

Tufel II 94205 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

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

TYPICAL RHEOLOGICAL PROFILE - MONSANTO RHEOMETOR 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

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, pli	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 LIM 6040 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

Patent Status

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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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