

# Tufel® III 92506

Silicone

Momentive Performance Materials Inc.

## Message:

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
- ### Potential Applications
- Healthcare
  - Consumer Goods
  - General Industrial

General Information		
Features	Biocompatible	
	Low Compression Set	
	Non-Blooming	
	Resilient	
Uses	Gaskets	
	Hose	
	Industrial Applications	
	Medical/Healthcare Applications	
	Pump Parts	
	Seals	
	Tubing	
Appearance	Valves/Valve Parts	
	Translucent	
	Calendering	
Processing Method	Extrusion	
Hardness	Nominal Value	Test Method
Durometer Hardness (Shore A)	50	ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	1.40	MPa	ASTM D412
Tensile Strength	7.60	MPa	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Tear Strength <sup>1</sup>	17.5	kN/m	ASTM D624
Compression Set (177°C, 22 hr)	30	%	ASTM D395
Bayshore Resilience	60	%	ASTM D2632
Uncured Properties	Nominal Value	Unit	
Density	1.12	g/cm <sup>3</sup>	
Curing Time (177°C)	0.17	hr	
NOTE			

1. Die B

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