

# Mediprene® 500050M

Styrene Ethylene Butylene Styrene Block Copolymer  
ELASTO

Message:

Mediprene thermoplastic elastomers are suitable for a wide variety of uses in the medical and pharmaceutical market and new applications are being developed all the time. Mediprene compounds combine the performance of vulcanised rubbers with the processing properties of thermoplastics, delivering sophisticated design opportunities through a wide and flexible range of products. Thermal and mechanical properties can be designed into the formulations and Mediprene compounds are fully recyclable and thus fulfil environmental requirements. Mediprene thermoplastic elastomers have proven to be strong alternatives as replacement for PVC. They are completely synthetic and latex free thereby minimizing allergy risks. The right TPE formulation is the key to a safe and successful medical product. When a standard formulation does not meet the needs of a unique application, we will apply our expertise in formulating a custom solution.

General Information	
Features	Good Chemical Resistance
	Good Weather Resistance
Uses	Medical/Healthcare Applications
Agency Ratings	USP Class VI
Appearance	Translucent
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.880	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/0.325 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	5		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
--	2.00	MPa	
100% Strain	0.100	MPa	
300% Strain	0.200	MPa	
Tensile Elongation (Break)	> 1000	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	12.0	kN/m	ASTM D624

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