

# Mediprene® 520450M

Styrene Ethylene Butylene Styrene Block Copolymer

ELASTO

## Message:

Mediprene thermoplastic elastomers (TPE) 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	Radiation disinfection		
	Pressure cooker disinfection		
	Good disinfection		
	Ethylene oxide disinfection		
	Recyclable materials		
	Good chemical resistance		
	Good weather resistance		
	Compliance of Food Exposure		
	Disinfect with steam		
Uses	Medical/nursing supplies		
Agency Ratings	FDA Food Exposure, Not Rated		
	Europe 10/1/2011 12:00:00 AM		
Appearance	Translucent		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	2.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	45		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
--	33.0	MPa	ASTM D638
100% strain	9.90	MPa	ASTM D638

300% strain	12.0	MPa	ASTM D638
Tensile Elongation (Break)	> 700	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	128	kN/m	ASTM D624

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