

# Preliminary datasheet

## Mediprene 500450M-03

<b>General</b>	Description	Thermoplastic Elastomer, TPS-SEBS
	Service Temperature	-50 to +125 °C (unstressed material)
	Colour	Translucent, but can be available in any colour.
	Form	Free flowing pellets.
	Weather Resistance	Good
	Chemical Resistance	Good (excluding organic solvents, aromatic- and vegetable oils)
	Recyclability	100% recyclable

**Special Features** The material is based on medically approved raw materials.

<b>Typical Properties</b>	<b>Property</b>	<b>Typical Value</b>	<b>Unit</b>	<b>Test Method</b>
	Hardness (4 mm, 15 s)	45	Shore A	ASTM D 2240
	Specific Gravity	0.89	g/cm <sup>3</sup>	ASTM D 792
	Tensile Strength	6.0	MPa	ASTM D 638
	Tear Strength	21.0	kN/m	ASTM D 624
	Stress at 100% Strain	1.1	MPa	ASTM D 638
	Stress at 300% Strain	2.1	MPa	ASTM D 638
	Elongation at Break	650	%	ASTM D 638
	Melt Flow Rate 190°C/5kg	1.0	g/10 min	ASTM D 1238

**Processing** The material has excellent processing characteristics and can be processed using conventional thermoplastic fabricating methods.

<b>Processing Method</b>	<b>Barrel temp (°C)</b>	<b>Mould temp (°C)</b>
Injection Moulding	180 - 210	20 - 50
Extrusion	150 - 210	

**Predrying**  
Under normal conditions not necessary.

The above information is, to the best of our knowledge, true and accurate, but any recommendations or suggestions, which may be made, are without guarantee, since the conditions of use are beyond our control. Figures are indicative and can vary depending on specific grade selected and production site. Dryflex & Mediprene grades have an expected shelf life of minimum 12 months after shipment date. The product should be stored in a dry and cool place in the manufacturer's original packaging. Dryflex® and Mediprene® are registered trademarks, property of the HEXPOL Group of companies.