

Mediprene® 500502M

Styrene Ethylene Butylene Styrene Block Copolymer
ELASTO

Message:

Mediprene 500502M: Thermoplastic Elastomer
Material Type: TPS-SEBS
Hardness: 50 Shore A (4mm)
Service Temperature Range: -50 -- +100°C (unstressed material)
Colour: Transparent, but can be available in any colour.
Presentation: Free flowing pellets that can be processed without predrying, when stored under normal conditions.
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.

General Information			
Features	Recyclable materials		
	Workability, good		
	Good chemical resistance		
	Good weather resistance		
Uses	Medical/nursing supplies		
Appearance	Available colors		
	Clear/transparent		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 4.00 mm)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
100% secant	1.40	MPa	ASTM D638
300% secant	2.50	MPa	ASTM D638
Tensile Strength	6.00	MPa	ASTM D638
Tensile Elongation (Break)	650	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	28.0	kN/m	ASTM D624

Thermal	Nominal Value	Unit
Service Temperature	-50 - 100	°C
Injection	Nominal Value	Unit
Rear Temperature	150 - 210	°C
Middle Temperature	150 - 210	°C
Front Temperature	150 - 210	°C
Mold Temperature	20 - 40	°C
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	140 - 180	°C
Cylinder Zone 2 Temp.	140 - 180	°C
Cylinder Zone 3 Temp.	140 - 180	°C
Cylinder Zone 4 Temp.	140 - 180	°C
Cylinder Zone 5 Temp.	140 - 180	°C

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Recommended distributors for this material

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