

Mediprene® 500452M

Styrene Ethylene Butylene Styrene Block Copolymer
ELASTO

Message:

Preliminary datasheet
Mediprene® 500452M: Thermoplastic Elastomer
Basic material: TPS-SEBS
Hardness: 45 Shore A (4 mm)
Service temperature range: -50 -- +125°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)
Recycling: 100% recyclable
Special Features: The material is based on medically approved raw materials.

General Information			
Features	Good Chemical Resistance		
	Good Processability		
	Good Weather Resistance		
	Recyclable Material		
Uses	Medical/Healthcare Applications		
Appearance	Clear/Transparent		
	Colors Available		
Forms	Pellets		
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)	14	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 4.00 mm)	45		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
100% Secant	1.00	MPa	
300% Secant	2.10	MPa	
Tensile Strength	6.00	MPa	ASTM D638
Tensile Elongation (Break)	640	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	30.0	kN/m	ASTM D624

Thermal	Nominal Value	Unit
Service Temperature	-50 to 125	°C
Injection	Nominal Value	Unit
Rear Temperature	180 to 210	°C
Middle Temperature	180 to 210	°C
Front Temperature	180 to 210	°C
Mold Temperature	30.0 to 60.0	°C
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150 to 210	°C
Cylinder Zone 2 Temp.	150 to 210	°C
Cylinder Zone 3 Temp.	150 to 210	°C
Cylinder Zone 4 Temp.	150 to 210	°C
Cylinder Zone 5 Temp.	150 to 210	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

