

Mediprene® 880136-02

Styrene Ethylene Butylene Styrene Block Copolymer

ELASTO

Message:

Mediprene 880136-02: Thermoplastic Elastomer
Material Type: TPS-SEBS
Hardness: 41 Shore A (4mm)
Service Temperature Range: -50 to +125°C (unstressed material)
Color: Transparent, but can be available in any color.
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 materials.
Processing: The material has excellent processing characteristics and can be processed using conventional thermoplastic fabricating methods, including injection moulding and extrusion.

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)	35	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 4.00 mm)	41		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
100% secant	1.20	MPa	ASTM D638
300% secant	2.40	MPa	ASTM D638
Tensile Strength	4.20	MPa	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method

Tear Strength	14.0	kN/m	ASTM D624
Thermal	Nominal Value	Unit	
Service Temperature	-50 - 125	°C	
Injection	Nominal Value	Unit	
Rear Temperature	180 - 210	°C	
Middle Temperature	180 - 210	°C	
Front Temperature	180 - 210	°C	
Mold Temperature	30 - 60	°C	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150 - 210	°C	
Cylinder Zone 2 Temp.	150 - 210	°C	
Cylinder Zone 3 Temp.	150 - 210	°C	
Cylinder Zone 4 Temp.	150 - 210	°C	
Cylinder Zone 5 Temp.	150 - 210	°C	

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Recommended distributors for this material

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