

Mediprene® 880188

Styrene Butadiene Styrene Block Copolymer

ELASTO

Message:

Preliminary datasheet
Mediprene® 880188: Thermoplastic Elastomer
Basic material: TPS-SBS
Hardness: 60 Shore A (4 mm)
Service temperature range: -50 -- +125°C (unstressed material)
Colour: Black, but the base material 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	Recyclable materials		
	Workability, good		
	Good chemical resistance		
	Good weather resistance		
Uses	Medical/nursing supplies		
Appearance	Black		
	Available colors		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.880	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 4.00 mm)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
100% secant	1.90	MPa	ASTM D638
300% secant	3.00	MPa	ASTM D638
Tensile Strength	11.0	MPa	ASTM D638
Tensile Elongation (Break)	750	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	32.0	kN/m	ASTM D624

Thermal	Nominal Value	Unit
Service Temperature	-50 - 125	°C
Injection	Nominal Value	Unit
Rear Temperature	180 - 220	°C
Middle Temperature	180 - 220	°C
Front Temperature	180 - 220	°C
Mold Temperature	20.0 - 50.0	°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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