

Mediprene® 500552M

Styrene Ethylene Butylene Styrene Block Copolymer

ELASTO

Message:

The Mediprene 500M range of TPEs for medical applications includes several transparent grades. These compounds were developed in response to an increasing interest in transparent compounds from the medical market.

Mediprene TPE materials are PVC, silicone and latex free, making them allergen free and a viable alternative to PVC based compounds. They offer hardnesses from 30 to 90 Shore A, allowing a wide degree of design freedom.

General Information			
Features	Good Clarity		
	Radiation disinfection		
	Good disinfection		
	Ethylene oxide disinfection		
	Good flexibility		
	Good adhesion		
	Soft		
	Disinfect with steam		
Uses	Medical/nursing supplies		
Appearance	Clear/transparent		
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)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
--	7.00	MPa	ASTM D638
100% strain	1.40	MPa	ASTM D638
300% strain	2.80	MPa	ASTM D638
Tensile Elongation (Break)	> 500	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	29000	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Processing (Melt) Temp	150 - 210	°C	
Mold Temperature	20 - 40	°C	

Extrusion	Nominal Value	Unit
Melt Temperature	140 - 180	°C

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Recommended distributors for this material

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