

Mediprene® OF 500M

Thermoplastic Elastomer

ELASTO

Message:

The Mediprene oil free compounds were developed to address demands for transparent medical thermoplastic elastomer (TPE) grades with a minimum of potential extractables and leachables.

The Mediprene OF range, helps to prevent the possibility of oil migrating or leaching out of the material, a key requirement for medical and healthcare-related devices. They are ideal for sensitive medical applications where transparency is also required.

Regulatory compliance

Representative Mediprene grades have passed cytotoxicity tests according to ISO 10993-5 and are compliant with USP Class VI. Mediprene TPE materials are PVC, silicone and latex free, making them allergen free and a viable alternative to PVC based compounds.

General Information	
Features	Ethylene Oxide Sterilizable Good Adhesion Low Extractables Radiation Sterilizable Steam Sterilizable
Uses	Medical/Healthcare Applications Tubing
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/5.0 kg)	2.0	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 Strength			ASTM D638
--	10.0	MPa	
100% Strain	1.10	MPa	
300% Strain	1.90	MPa	
Tensile Elongation (Break)	700	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	20.0	kN/m	ASTM D624

Thermal	Nominal Value	Unit
Service Temperature ¹	-50 to 80	°C
Injection	Nominal Value	Unit
Rear Temperature	180 to 230	°C
Middle Temperature	180 to 230	°C
Front Temperature	180 to 230	°C
Mold Temperature	20.0 to 50.0	°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
NOTE		
1.	Unstressed Material	

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