

## ELASTO UK Mediprene™ 500520M TPE, Medical Applications, 52A Hardness

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

### Material Notes:

All Mediprene™ compounds are designed and manufactured for use in medical and pharmaceutical applications. In both medical and food contact areas, high application demands are found, such as: Low extractable No migration of plasticizer Cleanliness Good vapor and gas transmission properties Softness, flexibility and clarity Chemical inertness Ease of sterilization for repeated use Mediprene™ compounds can be processed using conventional thermoplastic equipment for extrusion, injection molding, etc. The compounds are not hygroscopic, and thus do not need any pre-drying. Assembling Mediprene™ to mainly all used thermoplastics is feasible. All Mediprene™ grades are fully recyclable and where possible reprocessable during manufacturing and when burned do not emit toxic fumes. Mediprene™ grades exhibit excellent resistance to many fluids used in the healthcare environment. Information from Vita Thermoplastic Polymers (VTP). Vita Thermoplastic Polymers was acquired by HEXPOL and is now ELASTO

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ELASTO-UK-Mediprene-500520M-TPE-Medical-Applications-52A-Hardness.php](http://www.lookpolymers.com/polymer_ELASTO-UK-Mediprene-500520M-TPE-Medical-Applications-52A-Hardness.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.890 g/cc	0.890 g/cc	ASTM D792
Melt Flow	1.0 g/10 min @Load 5.00 kg, Temperature 190 °C	1.0 g/10 min @Load 11.0 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	52 @Thickness 4.00 mm	52 @Thickness 0.157 in	ASTM D2240
Tensile Strength at Break	7.00 MPa	1020 psi	ASTM D638
Elongation at Break	640 %	640 %	ASTM D638
100% Modulus	0.00130 GPa	0.189 ksi	ASTM D638
300% Modulus	0.00230 GPa	0.334 ksi	ASTM D638
Tear Strength	20.0 kN/m	114 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	180 - 210 °C	356 - 410 °F	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value	Comments	
Chemical Resistance	Good	Excluding organic solvents, aromatic and vegetable oils	
Color	Translucent		
Weather Resistance	Good		

## Contact Songhan Plastic Technology Co.,Ltd.

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