

ExxonMobil Santoprene® 181-57W180 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

Material Notes:

A soft, black, specialty thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It has USP Class VI Certificate of Compliance for biocompatibility, MEM elution cytotoxicity to L-929 mouse fibroblast cells, 72 hour exposure to rubber extracts and USP physiochemical test for elastomer closures, heavy metals such as lead. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding or extrusion. It is polyolefin based and completely recyclable. Key Features: Based on a series of biocompatibility tests conducted on representative grades, this grade should meet the USP (U.S. Pharmacopeia) Class VI requirements for plastics. Additionally some ISO 10993 tests have been conducted. Each medical grade undergoes annual testing for cytotoxicity and heavy metals. Drug master file maintained with the FDA. EU and China RoHS compliant. Applications: Medical – Soft Touch Grips, USP Class VI Seals and Gaskets. Uses: Medical/Healthcare Applications. Availability: Africa & Middle East, Europe, North America, Asia Pacific, Latin America and South America. Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-181-57W180-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.940 g/cc	0.940 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	61	61	2 mm, 15 sec; ISO 868
Tensile Strength at Break	4.67 MPa	677 psi	Across Flow; ASTM D412
Tensile Stress	2.00 MPa @Strain 100 %	290 psi @Strain 100 %	Across Flow; ASTM D412
Elongation at Break	330 %	330 %	Across Flow; ASTM D412

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	

Descriptive Properties	Value	Comments
Color	Black	
Form	Pellets	

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