

ExxonMobil Santoprene® 281-87MED Thermoplastic Elastomer (discontinued **)

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

Material Notes:

A hard, colorable, specialty thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. USP Class VI Certificates of Compliance exist for representative samples of our medical grades. Prior to release, each medical grade lot undergoes a Cytotoxicity study using the ISO elution method and a Physico-Chemical - Elastomeric Closures test for heavy metals such as lead. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding, extrusion or blow molding. It is polyolefin based and completely recyclable. Information provided by Advanced Elastomer Systems

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-281-87MED-Thermoplastic-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	.12 in; ASTM D2240
Tensile Strength at Break	13.868 MPa	2011.4 psi	Air at 212°F, 168 hr; ASTM D573
	15.6 MPa	2260 psi	Across Flow; ASTM D412
Tensile Strength, Ultimate	6.83 MPa	990 psi	Across Flow; ASTM D412
Elongation at Break	509.6 %	509.6 %	Air at 212°F, 168 hr; ASTM D573
	560 %	560 %	Across Flow; ASTM D412
Tear Strength	25.1 kN/m	143 pli	212°F, Die C; ASTM D624
	45.1 kN/m	257 pli	73°F, Die C; ASTM D624
Compression Set	33 %	33 %	73°F, 168 hr; ASTM D395
	48 %	48 %	ASTM D395

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Adapter Temperature	216 - 232 °C	420 - 450 °F	
Die Temperature	216 - 232 °C	420 - 450 °F	Extrusion

Descriptive Properties	Value	Comments
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Color Descriptive Properties	Natural Color Value	Comments
Form	Pellets	

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