

ExxonMobil Santoprene® 281-45MED Thermoplastic Elastomer (discontinued **)

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

Material Notes:

A soft, 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 or extrusion. 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-281-45MED-Thermoplastic-Elastomer-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------|------------|-----------------|
| Specific Gravity | 0.960 g/cc | 0.960 g/cc | 23°C; ASTM D792 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------|----------|---------------------------------|
| Hardness, Shore A | 45 | 45 | .12 in; ASTM D2240 |
| Tensile Strength at Break | 3.72 MPa | 540 psi | Across Flow; ASTM D412 |
| | 4.10 MPa | 594 psi | Air at 212°F, 168 hr; ASTM D573 |
| Tensile Strength, Ultimate | 1.31 MPa | 190 psi | Across Flow; ASTM D412 |
| Elongation at Break | 400 % | 400 % | Across Flow; ASTM D412 |
| | 468 % | 468 % | Air at 212°F, 168 hr; ASTM D573 |
| Tear Strength | 5.08 kN/m | 29.0 pli | 212°F, Die C; ASTM D624 |
| | 14.0 kN/m | 80.0 pli | 73°F, Die C; ASTM D624 |
| Compression Set | 22 % | 22 % | 73°F, 168 hr; ASTM D395 |
| | 53 % | 53 % | 212°F, 168 hr; ASTM D395 |
| Tensile Set | 4.0 % | 4.0 % | ASTM D412 |

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

| Descriptive Properties | Value | Comments |
|------------------------|---------------|----------|
| Color | Natural Color | |

Descriptive Properties

Ballote
Value

Comments

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