

## Santoprene™ 181-55MED

## Thermoplastic Vulcanizate

## **Product Description**

A soft, black, specialty thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is designed for use in medical and healthcare applications. 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 recyclable within the manufacturing stream.

## **Key Features**

- This grade meets 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.

General Applications	<ul> <li>Medical - Soft Touch</li> </ul>	Grins 1151	P Class VI Seals and Gaskets		
Uses	Medical - Soft Touch Grips, USP Class VI Seals and Gaskets     Medical/Healthcare Applications				
Agency Ratings	USP Class VI	Арріісаціої	15		
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RoHS Compliance	RoHS Compliant				
Color	Black				
Form(s)	<ul> <li>Pellets</li> </ul>				
Processing Method			ofile Extrusion eet Extrusion		
hysical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density / Specific Gravity	0.980		0.980		ASTM D792
Density	0.980	g/cm³	0.980	g/cm³	ISO 1183
lardness	Typical Value	(English)	Typical Value	(SI)	Test Based On
Shore Hardness	71		,,		ISO 868
Shore A, 15 sec, 73°F (23°C)	59		59		
Elastomers	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	305			MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	305	psi	2.10	MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	885	psi	6.10	MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	885	psi	6.10	MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	440	%	440	%	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	440	%	440	%	ISO 37
Compression Set 73°F (23°C), 168 hr, Type 1	19	%	19	%	ASTM D395B
Compression Set 73°F (23°C), 168 hr, Type A	19	%	19	%	ISO 815
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