ExonMobil

Santoprene™ 281–55MED Thermoplastic Vulcanizate

Product Description		Kov F	eatures		
A soft, colorable, specialty thermoplastic thermoplastic elastomer (TPE) family. It is and healthcare applications. This grade of dependent and can be processed on convequipment for injection molding or extrust and recyclable within the manufacturing statement of the special sp	designed for use in medi Santoprene TPV is shear rentional thermoplastics ion. It is polyolefin based	- Ba cal re - Pl - A - Ea he	ased on a series of biocompat presentative grades, this grad narmacopeia) Class VI required dditionally some ISO 10993 te ach medical grade undergoes eavy metals. rug master file maintained wit	e shoul ments f ests hav annual	ld meet the USP (U.S. For plastics. re been conducted. testing for cytotoxicity and
General					
Applications	Medical - Soft Touch Grips, USP Class VI Seals and Gaskets				
Uses	Medical/Healthcare Applications				
Agency Ratings	USP Class VI				
RoHS Compliance	 RoHS Compliant 				
Color	 Natural Color 				
Form(s)	 Pellets 				
Processing Method	CoextrusionExtrusion		Injection MoldingMulti Injection Molding		Profile Extrusion Sheet Extrusion
Physical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density / Specific Gravity	0.960		0.960		ASTM D792
Density	0.960	g/cm³	0.960	g/cm ³	ISO 1183
Hardness Shore Hardness Shore A, 15 sec, 73°F (23°C)	Typical Value	(English)	Typical Value	(SI)	Test Based On ISO 868
	T : 1)(1		T : 1771		T I D I O
Elastomers Tensile Set (73°F (23°C))	Typical Value	(English) %	Typical Value 5	(SI) %	Test Based On ASTM D412
Tensile Set (73°F (23°C))	5	%	5	%	ISO 2285
Tensile Stress at 100% - Across Flow (73°F (23°C))	290	-		MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	290	psi	2.00	MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	711	psi	4.90	MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	711	psi	4.90	MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	410	%	410	%	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	410	%	410	%	ISO 37
Compression Set 73°F (23°C), 168 hr, Type 1 212°F (100°C), 168 hr, Type 1	20 48		20 48		ASTM D395B
Compression Set		-			ISO 815
73°F (23°C), 168 hr, Type A		%		%	





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Extrusion Notes

Santoprene TPV is incompatible with acetal and PVC in the molten state. For more information regarding processing and die design, please consult our Extrusion Guide.

ging	Typical Value (English)	Typical Value (SI)	Test Based On
Change in Tensile Strength in Air			ASTM D573
212°F (100°C), 168 hr	11 %	11 %	
Change in Tensile Strength in Air			ISO 188
212°F (100°C), 168 hr	11 %	11 %	
Change in Ultimate Elongation in Air			ASTM D573
212°F (100°C), 168 hr	9.0 %	9.0 %	
Change in Tensile Strain at Break in Air			ISO 188
212°F (100°C), 168 hr	9.0 %	9.0 %	



