

Advanced Elastomer Systems Santoprene® 281-55 Thermoplastic Rubber (discontinued **)

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

A colorable thermoplastic medical grade elastomer with good fluid resistance, certified non-toxic by MEM elution test. It has USP Class VI Certificate of Compliance for biocompatibility and can be processed using injection molding, extrusion, blow molding or other melt processing techniques. Drug Master File has been established at US FDA National Center for drugs and biologics. Key Features: MEM elution cytotoxicity to L-929 mouse fibroblast cells, 72 hr. exposure to rubber extract; NAMSA, MT023-100 test method; test unit, % cell lysis; typical value 0; USP physiochemical test for elastomer closures, heavy metals such as lead; NAMSA, CP020-004 test method; Test unit, ppm; typical value

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Elastomer-Systems-Santoprene-281-55-Thermoplastic-Rubber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in ³	TPE-0105 (ASTM D792)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	5 Second; TPE-0169 (ASTM D 2240)
Tensile Strength, Ultimate	4.70 MPa	682 psi	TPE-0153 (ASTM D 412)
Elongation at Break	400 %	400 %	TPE-0153 (ASTM D 412)
100% Modulus	0.00170 GPa	0.247 ksi	TPE-0153 (ASTM D 412)
Graves Tear Strength	9.00 kN/m	51.4 pli	TPE-0056 (ASTM D 624)
	@Temperature 100 °C	@Temperature 212 °F	
	22.0 kN/m	126 pli	TPE-0056 (ASTM D 624)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compression Set	23 %	23 %	23°C, 168 hrs.; TPE-0016 (ASTM D 412)
	25 %	25 %	168 hrs.; TPE-0016 (ASTM D 412)
	@Temperature 100 °C	@Temperature 212 °F	
Tensile Set	6.0 %	6.0 %	23°C, 168 hrs.; TPE-0053 (ASTM D 412)

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -60.0 °C	<= -76.0 °F	TPE-0089 (ASTM D 746)

Processing Properties	Metric	English	Comments
Processing Temperature	177 - 232 °C	351 - 450 °F	
Drying Temperature	82.0 °C	180 °F	Desiccant drying for 3 hours recommended
Dry Time	3 hour	3 hour	

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