

Advanced Elastomer Systems Santoprene® 283-40 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-283-40-Thermoplastic-Rubber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	TPE-0105 (ASTM D792)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	40	40	5 Second; TPE-0169 (ASTM D 2240)
Tensile Strength, Ultimate	15.2 MPa	2200 psi	TPE-0153 (ASTM D 412)
Elongation at Break	525 %	525 %	TPE-0153 (ASTM D 412)
100% Modulus	0.00860 GPa	1.25 ksi	TPE-0153 (ASTM D 412)
Tear Strength	65.0 kN/m	371 pli	65 kN/m at 23°C. Value at 100°C is 36 kN/m. TPE-0056 (ASTM D 624)
Tensile Set	48 %	48 %	TPE-0053 (ASTM D 412)

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -57.0 °C	<= -70.6 °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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