

Advanced Elastomer Systems Santoprene® 181-64 Thermoplastic Rubber (discontinued **)

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

Material Notes:

A black 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 physicochemical 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-181-64-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 | 64 | 64 | 5 Second; TPE-0169 (ASTM D 2240) |
| Tensile Strength, Ultimate | 6.90 MPa | 1000 psi | TPE-0153 (ASTM D 412) |
| Elongation at Break | 440 % | 440 % | TPE-0153 (ASTM D 412) |
| 100% Modulus | 0.00230 GPa | 0.334 ksi | TPE-0153 (ASTM D 412) |
| Graves Tear Strength | 10.0 kN/m | 57.1 pli | TPE-0056 (ASTM D 624) |
| | @Temperature 100 °C | @Temperature 212 °F | |
| | 25.0 kN/m | 143 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) |
| | 36 % | 36 % | 168 hrs.; TPE-0016 (ASTM D 412) |
| | @Temperature 100 °C | @Temperature 212 °F | |
| Tensile Set | 10 % | 10 % | 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 | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China