

Advanced Elastomer Systems Santoprene® 8281-90 Thermoplastic Rubber (discontinued **)

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

Material Notes:

Description: A colorable thermoplastic medical grade elastomer. It has USP Class VI Certificate of Compliance for biocompatibility and can be processed using injection molding, extrusion, or other melt processing techniques. Supplied as free-flowing pellets in 25 kilogram (55 pound) moisture barrier bags. Features: Non-hygroscopic product, requires little to no drying before processing Neutral, easy coloring formulation USP Class VI Certificate of Compliance Drug Master File established with FDA Product Notes: Values are for injection molded plaques, side gated. 82.6 mm x 117.5 mm x 3 mm Information provided by Advanced Elastomer Systems. Advanced Elastomer Systems is now a part of ExxonMobil. This grade was removed from the Advanced Elastomers Systems standard product line before the ExxonMobil acquisition.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Elastomer-Systems-Santoprene-8281-90-Thermoplastic-Rubber-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------|---------------------------|-----------|
| Density | 0.930 g/cc | 0.0336 lb/in ³ | ASTM D792 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|----------|---|
| Hardness, Shore A | 90 | 90 | 5 seconds; ASTM D2240 |
| | 95 | 95 | 5 seconds, After oven air aging 168 hours @ 150°C; ASTM D2240 |
| Tensile Strength at Break | 11.98 MPa | 1737 psi | After oven air again 168 hrs. @ 150°C; ASTM D412 |
| | 13.3 MPa | 1930 psi | Across flow; ASTM D412 |
| Tensile Strength, Yield | 10.1 MPa | 1460 psi | At 100% elongation, across flow; ASTM D412 |
| Elongation at Break | 315 % | 315 % | After oven air aging 168 hrs. @ 150°C; ASTM D412 |
| | 450 % | 450 % | Across flow; ASTM D412 |
| Tear Strength | 75.4 kN/m | 430 pli | 73°F; ASTM D624 |
| Compression Set | 37 % | 37 % | 73°F, 170 hr, Method B; ASTM D395 |
| Tensile Set | 43 % | 43 % | ASTM D412 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|----------|----------|-----------|
| Brittleness Temperature | -59.0 °C | -74.2 °F | ASTM D746 |

| Processing Properties | Metric | English | Comments |
|------------------------|--------------|--------------|-----------------|
| Processing Temperature | 177 - 232 °C | 351 - 450 °F | |
| Drying Temperature | 82.0 °C | 180 °F | Desiccant Dryer |
| Dry Time | 3 hour | 3 hour | Desiccant Dryer |

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