

ExxonMobil Santoprene® 8211-35W237 Thermoplastic Rubber (discontinued **)

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

Material Notes:

A colorable thermoplastic general purpose non-hygroscopic elastomer, formulated to replace thermoset elastomers such as EPDM, polychloroprene, and chlorosulfonated polyethylene. It can be processed using injection molding, extrusion, blow molding or other melt processing techniques. Key Features: Non-hygroscopic product, requires little to no drying before processing; Neutral, easy coloring formulation; Excellent ozone resistance; Excellent sealing properties; Excellent flex fatigue resistance. Additional processing comments: This thermoplastic rubber is a shear-dependent material that can be processed on conventional thermoplastic equipment for injection molding or extrusion. For extrusion, a general purpose screw with a compression ratio of 2.5 to 3.0 is recommended. Material can be recycled. SANTOPRENE rubber is incompatible with acetal and PVC. Values below are for injection molded plaques, side gated, 82.6 mm x 117.5 mm x 3.0 mm. Tensile properties measured across flow. Data provided by Advanced Elastomer Systems.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-8211-35W237-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 A	35	35	5 Second; TPE-0169 (ASTM D 2240)
Tensile Strength, Ultimate	3.10 MPa	450 psi	TPE-0153 (ASTM D 412)
Elongation at Break	450 %	450 %	TPE-0153 (ASTM D 412)
100% Modulus	0.00100 GPa	0.145 ksi	TPE-0153 (ASTM D 412)
Tear Strength	12.0 kN/m	68.5 pli	12 kN/m at 23°C. Value at 100°C is 3.6 kN/m. TPE-0056 (ASTM D 624)
Compression Set	15 %	15 %	23°C, 168 hrs.; TPE-0016 (ASTM D 412)
Tensile Set	5.0 %	5.0 %	23°C, 168 hrs.; TPE-0053 (ASTM D 412)

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -62.0 °C	<= -79.6 °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 if desired.

Processing Properties

Metric

English

Comments

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