

ExxonMobil Santoprene® 8211-45W237 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, extrusion, or blow molding. 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-8211-45W237-Thermoplastic-Rubber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	TPE-0105 (ASTM D792)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45	45	5 Second; TPE-0169 (ASTM D 2240)
Tensile Strength, Ultimate	3.30 MPa	479 psi	TPE-0153 (ASTM D 412)
Elongation at Break	500 %	500 %	TPE-0153 (ASTM D 412)
100% Modulus	0.00140 GPa	0.203 ksi	TPE-0153 (ASTM D 412)
Graves Tear Strength	16.0 kN/m	91.3 pli	TPE-0056 (ASTM D 624)
Compression Set	16 %	16 %	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	<= -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 if desired.

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