

ExxonMobil Santoprene® 521-70 Thermoplastic Rubber (discontinued **)

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

Material Notes:

A black thermoplastic elastomer designed for glazing and sealing applications with good fluid resistance, 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: Recommended for glazing and sealing applications; Good UV stability; Passes ASTM C 542 Flame Test requirement; Good low temperature flexibility. 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-521-70-Thermoplastic-Rubber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	TPE-0105 (ASTM D792)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	5 Second; TPE-0169 (ASTM D 2240)
Tensile Strength, Ultimate	6.70 MPa	972 psi	TPE-0153 (ASTM D 412)
Elongation at Break	460 %	460 %	TPE-0153 (ASTM D 412)
100% Modulus	0.00380 GPa	0.551 ksi	TPE-0153 (ASTM D 412)
Graves Tear Strength	25.0 kN/m	143 pli	TPE-0056 (ASTM D 624)
Compression Set	37 % @Temperature 100 °C	37 % @Temperature 212 °F	168 hrs.; TPE-0016 (ASTM D 412)
Tensile Set	11.5 %	11.5 %	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	

Processing Properties

Metric

English

Comments

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