

## ExxonMobil Santoprene® 121-80M300 Thermoplastic Rubber (discontinued \*\*)

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

### Material Notes:

Description: A black thermoplastic high-flow elastomer for excellent injection molding performance with good fluid resistance, formulated to replace thermoset elastomers such as EPDM, polychloroprene, and high quality SEBS compounds. It is polyolefin-based and UV stable. Supplied as free-flowing pellets in 20 kilogram (44 pound) moisture barrier bags. Features: Water used as physical foaming agent Density range 0.95 to 0.15 depending on foaming agent Excellent ozone resistance 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.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Santoprene-121-80M300-Thermoplastic-Rubber-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-121-80M300-Thermoplastic-Rubber-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in <sup>3</sup>	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	5 seconds; ASTM D2240
	80	80	15 seconds; ASTM D2240
	80	80	15 seconds, After oven air aging 1008 hrs. @ 125°C; ASTM D2240
Tensile Strength at Break	8.377 MPa	1215 psi	After oven air aging 1008 hrs. @ 125°C; ASTM D412
	9.31 MPa	1350 psi	Across flow; ASTM D412
Tensile Strength, Yield	3.38 MPa @Strain 100 %	490 psi @Strain 100 %	across flow; ASTM D412
Elongation at Break	504 %	504 %	After oven air aging 1008 hrs. @ 125°C; ASTM D412
	560 %	560 %	Across flow; ASTM D412
Compression Set	44 %	44 %	158°F, 22 hr, Method B; ASTM D395
	46 %	46 %	457°F, 70 hr, Method B; ASTM D395
Tensile Set	11 %	11 %	ASTM D412

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-50.0 °C	-58.0 °F	ASTM D746

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

## Contact Songhan Plastic Technology Co.,Ltd.

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