

ExxonMobil Santoprene® 121-50E500 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

Material Notes:

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material has controlled rheology for robotic or specialty extrusion applications. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion. It is polyolefin based and completely recyclable. Key Features: Designed for applications requiring good elastic recovery. Designed for improved UV resistance. Recommended for applications requiring superior part surface appearance. Applications: Automotive-Weather Seals Uses: Automotive Applications Automotive Exterior Trim Availability: Africa & Middle East, Europe, North America, Asia Pacific, Latin America and South America Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-121-50E500-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	Air at 275°F, 168 hr; ASTM D573
	56	56	2 mm, 15 sec; ISO 868
Tensile Strength at Break	3.80 MPa	551 psi	Air at 275°F, 168 hr; ASTM D573
	4.00 MPa	580 psi	Across Flow; ASTM D412
Tensile Stress	1.70 MPa	247 psi	Across Flow; ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	427.5 %	427.5 %	Air at 275°F, 168 hr; ASTM D573
	450 %	450 %	Across Flow; ASTM D412
Compression Set	23 %	23 %	73°F, 70 hr; ASTM D395
	41 %	41 %	257°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-61.1 °C	-78.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	190 - 230 °C	374 - 446 °F	

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
Form	Pellets	

Contact Songhan Plastic Technology Co.,Ltd.

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