

ExxonMobil Santoprene® 121-80W175 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 combines good physical properties and chemical resistance, and is designed for thin wall or complex profile 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: Recommended for applications requiring excellent flex fatigue resistance. Recommended for applications requiring excellent ozone resistance. Designed for improved UV resistance. Compliant to EU Directive 2003/11/EC regarding marketing and use of certain dangerous substances and preparations, specifically pentabromodiphenyl ether or octabromodiphenyl ether. Applications: Automotive- Weather Seals, Seals and Gaskets Uses: Automotive Applications Automotive Exterior Trim Processing Method: Coextrusion, Profile Extrusion, Thermoforming, Extrusion, Sheet Extrusion and Vacuum Forming Availability: Africa & Middle East, Europe, North America, Asia Pacific, Latin America and South America Information provided by Advanced Elastomer Systems

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-121-80W175-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86 @Thickness 2.00 mm, Time 15.0 sec	86 @Thickness 0.0787 in, Time 0.00417 hour	ISO 868
Tensile Strength at Break	9.58 MPa	1390 psi	Across Flow; ASTM D412
Tensile Stress	4.60 MPa @Strain 100 %	667 psi @Strain 100 %	Across Flow; ASTM D412
Elongation at Break	460 %	460 %	Across Flow; ASTM D412

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	

Descriptive Properties	Value	Comments
Change in Mass in IRM 903 Oil at 257°F for 70 hr	87	
Color	Black	
Form	Pellets	

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