

ExxonMobil Santoprene® 121-70B230 Thermoplastic Elastomer

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

Material Notes:

A soft, black thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated to bond to sulfur or peroxide-cured thermoset EPDM rubber for corner molding, end caps and special fixation applications, and for COF enhancement. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding. It is polyolefin based and completely recyclable. Key Features: Specially formulated to replace thermoset EPDM rubber in automotive glass run channel corner molding applications. Designed for shorter processing time compared to thermoset EPDM rubber. Adheres to vulcanized EPDM rubber over wide range of temperatures. Adheres to TPV over wide range of temperatures. Enhanced COF properties. Good UV resistance. Low fogging. Paint stain resistant. 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-121-70B230-Thermoplastic-Elastomer.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------|------------|-----------------|
| Specific Gravity | 0.920 g/cc | 0.920 g/cc | 23°C; ASTM D792 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---------------------------|--------------------------|-------------------------|
| Hardness, Shore A | 71 | 71 | 2 mm, 15 sec; ISO 868 |
| Tensile Strength at Break | 6.00 MPa | 870 psi | Across Flow; ASTM D412 |
| Tensile Stress | 2.60 MPa @Strain 100 % | 377 psi @Strain 100 % | Across Flow; ASTM D412 |
| Elongation at Break | 470 % | 470 % | Across Flow; ASTM D412 |
| Compression Set | 44 % | 44 % | 158°F, 22 hr; ASTM D395 |

| 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 | 54 | |
| Color | Black | |
| Form | Pellets | |

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