ExxonMobil

Santoprene™ 121-70B260

Thermoplastic Vulcanizate

Product Description

A medium hard black thermoplastic vulcanizate (TPV) combining a low coefficient of friction with a good bonding to TPV and EPDM rubber. This grade offers excellent processability due to high shear thinning behavior for injection molding of complex geometries and excellent surface aesthetics providing color harmony with extruded profiles, without surface bleeding nor change of friction after heat aging. Santoprene 121-70B260 TPV has been designed for complex corner molding and end caps of automotive dense extruded weatherseals, either in TPV or in EPDM rubber.

Key Features

- Specially formulated to replace thermoset EPDM rubber in automotive GRC corner molding applications
- Designed for shorter processing cycle time compared to thermoset EPDM rubber
- Adheres to vulcanized EPDM rubber and TPV
- Built-in low COF properties
- Good flowability with excellent surface aspect

General

Applications	▪ Automotive - Corner Molding and End Caps	▪ Automotive - Weather Seals
Uses	▪ Outdoor Applications	
RoHS Compliance	▪ RoHS Compliant	
Color	▪ Black	
Form(s)	▪ Pellets	
Processing Method	▪ Injection Molding	▪ Multi Injection Molding

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.910 g/cm³	0.910 g/cm³	ISO 1183

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness			ISO 868
Shore A, 15 sec, 73°F (23°C)	68	68	

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	377 psi	2.60 MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	377 psi	2.60 MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	928 psi	6.40 MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	928 psi	6.40 MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	520 %	520 %	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	520 %	520 %	ISO 37
Compression Set			ASTM D395B
158°F (70°C), 22 hr, Type 1	49 %	49 %	
Compression Set			ISO 815
158°F (70°C), 22 hr, Type A	49 %	49 %	