ExxonMobil

Santoprene™ 121-40B260

Thermoplastic Vulcanizate

Product Description

A soft black thermoplastic vulcanizate (TPV) combining a low coefficient of friction with good bonding to TPV and EPDM rubber, in particular EPDM sponge profiles. This Santoprene grade offers easy processability due to a high shear thinning behavior for injection molding of complex geometries and excellent surface aesthetics, without surface bleeding after heat aging. Santoprene 121-40B260 TPV has been designed for soft corner molding and end caps of automotive dense and sponge weatherseals.

Key Features

- Specially formulated to replace thermoset EPDM rubber in automotive door-seal corner molding applications
- Designed for shorter processing cycle time compared to thermoset EPDM rubber
- Adheres to vulcanized EPDM rubber and TPV (dense and sponge)
- 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	0.900	g/cm³	0.900	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)	43		43		

Elastomers	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	160	psi	1.10	MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	160	psi	1.10	MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	435	psi	3.00	MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	435	psi	3.00	MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	420	%	420	%	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	420	%	420	%	ISO 37
Compression Set					ASTM D395B
158°F (70°C), 22 hr, Type 1	37	%	37	%	
Compression Set					ISO 815
158°F (70°C), 22 hr, Type A	37	%	37	%	