

SANTOPRENE™ 121-80B260 - TPV

Product Description

A hard black thermoplastic vulcanizate (TPV) combining a low coefficient of friction with a good bonding to TPV and EPDM rubber. The grade offers excellent processability due to high shear thinning behavior for injection molding of complex geometries, with excellent surface aesthetics providing good color harmony with extruded profiles, without surface bleeding nor change of friction after heat aging. Santoprene® 121-80B260 TPV has been designed for complex hard 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

Characteristics

Applications	Automotive - Corner Molding and End Caps, Automotive - Weather Seals
Uses	Outdoor applications
Color	Black
Delivery Form	Pellets
Processing	Injection molding, Multi injection molding

Physical properties	Value	Unit	Test Standard
Density	56.8	lb/ft ³	ISO 1183
Hardness	Value	Unit	
Shore A hardness-TPE, 15s	78		ISO 868
Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	508	psi	ASTM D412
Tensile stress at 100%, perpendicular	508	psi	ISO 37
Tensile strength at break elast, perpendicular	1600	psi	ASTM D412
Tensile stress at break, perpendicular	1600	psi	ISO 37
Elongation at break elast, perpendicular	640	%	ASTM D412
Tensile strain at break, perpendicular	640	%	ISO 37
Compression set, 70 °C, 22h, Type 1, Method B	62	%	ASTM D395
Compression set, 70 °C, 22h, Type A	62	%	ISO 815

Other text information

Processing Notes

Desiccant drying for 3 hours at 80 °C (180 °F) is recommended. Santoprene® TPV has a wide temperature processing window from 175 to 230 °C (350 to 450 °F) and is incompatible with acetal and PVC.

Other Approvals

OEM	Specification
Renault	FRM 18-27-207 /---
SAIC Motor	SMTC 5 320 024