SANTOPRENE® 121-80B260

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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

Product information

Resin Identification	TPV	ISO 1043
Part Marking Code	>TPV<	ISO 11469

Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	3.5	MPa	ISO 37
Stress at break, perpendicular	11	MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	640	%	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	78		ISO 48-4 / ISO 868
Compression set, 70°C, 24h	62	%	ISO 815

Physical/Other properties

Density	910	kg/m³	ISO 1183

Injection

Ejection temperature	90	°C

Additional information

Processing Notes

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.

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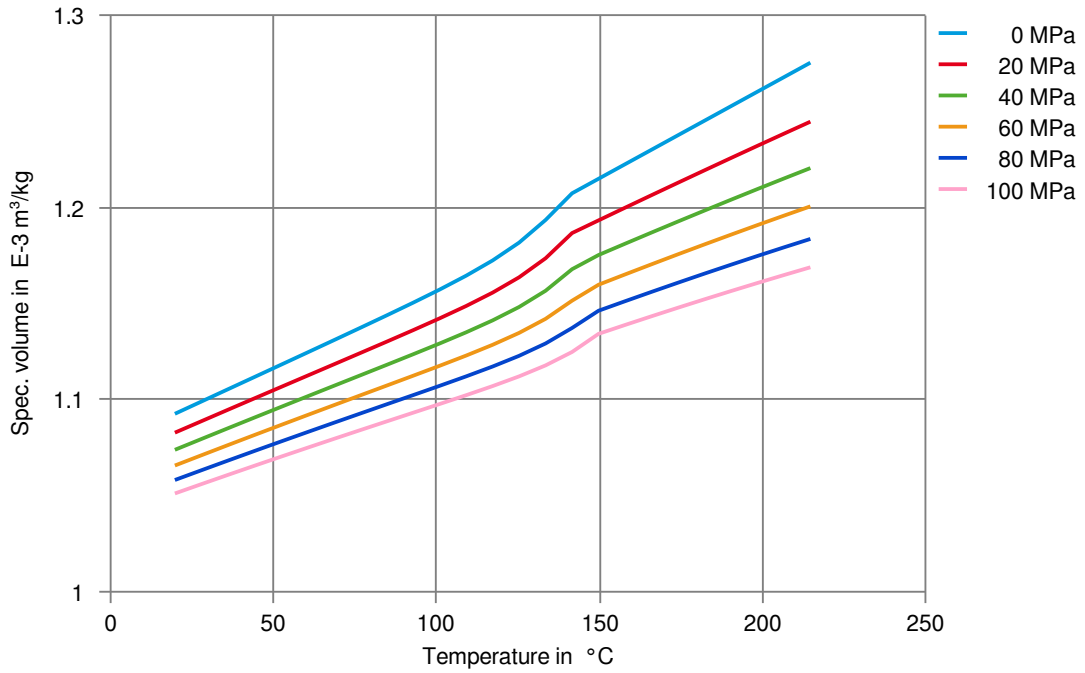
Specific volume-temperature (pvT)



Revised: 2024-06-24 Source: Celanese Materials Database

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