

SANTOPRENE[®] 121-62M100

SANTOPRENE®

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in difficult injection molding applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Designed for fast, easy injection molding, especially for complex part geometries
- Used in sealing applications
- Recommended for applications requiring improved part surface appearance
- · Designed to be injected at lower molding temperatures or at lower injection pressures
- UL listed: file #QMFZ2.E80017, Plastics Component; file #QMFZ8.E80017, Plastics Certified For Canada -Component

Product information

| Resin Identification Part Marking Code | TPV >TPV< | | ISO 1043 ISO 11469 |
|---|--|---------------------|--|
| Typical mechanical properties | | | |
| Tensile stress at 100% elongation, perpendicular Stress at break, perpendicular Elongation at break, perpendicular Brittleness Temperature Shore A hardness, 15s Compression set, 70°C, 24h Compression set, 125°C, 70h | 2.46 4.65 417 -60 67 34 47 | MPa % °C % | ISO 37 ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ASTM D 746 ISO 48-4 / ISO 868 ISO 815 ISO 815 |
| Initial Tear Resist., Die C | 19 | kN/m | ISO 34-1 |
| Flammability | | | |
| Burning Behav. at thickness h Thickness tested UL recognition | | class mm | IEC 60695-11-10 IEC 60695-11-10 UL 94 |
| Physical/Other properties | | | |
| Density | 915 | kg/m³ | ISO 1183 |
| Injection Max. regrind level Back pressure Ejection temperature | 20 0.517 95 | MPa | |

Additional information

Processing Notes

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

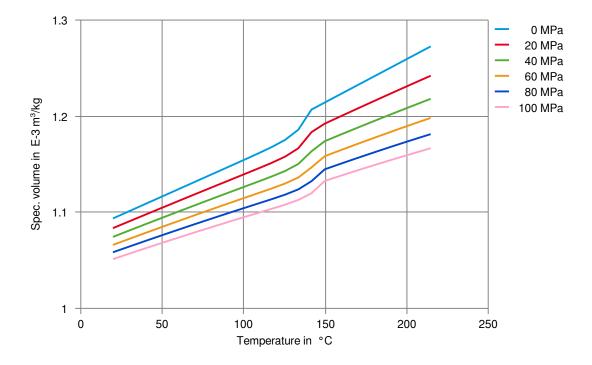
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Specific volume-temperature (pvT)



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