

# SANTOPRENE® 121-70M350

## SANTOPRENE®

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is designed for gap filler applications requiring scratch resistance and good appearance. 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 superior part surface appearance
- Designed to be injected at lower molding temperatures or at lower injection pressures

### Product information

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

### Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	2.6 MPa	ISO 37
Stress at break, perpendicular	6.2 MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	480 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	70	ISO 48-4 / ISO 868
Compression set, 70 °C, 24h	40 %	ISO 815

### Flammability

Burning rate, Thickness 2 mm	44.4 mm/min	ISO 3795 (FMVSS 302)
------------------------------	-------------	----------------------

### Physical/Other properties

Density	930 kg/m <sup>3</sup>	ISO 1183
---------	-----------------------	----------

### Injection

Ejection temperature	87 °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.

# SANTOPRENE® 121-70M350

SANTOPRENE®

## Specific volume-temperature (pvT)

