

SANTOPRENE® 8281-65MED

SANTOPRENE®

A soft, colorable, specialty, non-hygroscopic thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is designed for use in medical and healthcare applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding or blow molding. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Biocompatibility in tests corresponding to USP Class VI/ISO 10993
- A representative grade undergoes annual testing for cytotoxicity and heavy metals
- Drug master file maintained with the FDA

Product information

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

Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	2.4 MPa	ISO 37
Tensile stress at break, perpendicular	5.9 MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	480%	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	68	ISO 48-4 / ISO 868
Compression set, 23°C	27%	ISO 815
Time	168 h	
Compression set, 70°C, 24h	31.5 %	ISO 815

Physical/Other properties

Density	920 kg/m³	ISO 1183
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Injection

Max. regrind level	20%
Back pressure	0.517 MPa

Characteristics

Processing	Injection Moulding, Multi Injection Moulding, Blow Moulding
Delivery form	Pellets

Additional information

Processing Notes

Processing Notes

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