

SANTOPRENE® 8281-75MED

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

Typical mechanical properties

Stress at 100% elongation	522 psi	ISO 527-1/-2 or ISO 37
Stress at break	1130 psi	ISO 527-1/-2 or ISO 37
Elongation at break	510 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	79	ISO 48-4 / ISO 868
Compression set at 23°C	24 %	ISO 815

Other properties

Density	479 lb/gal	ISO 1183
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Injection

Processing Moisture Content	0.08 %
Max. regrind level	20 %
Max. mould temperature	75.2 - 126 °F
Vent depth	1 mil
Back pressure	50 - 99.9 psi
Injection speed	fast

Processing Texts

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.
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