

SANTOPRENE® 241-80W236

A soft, colorable, specialty thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is designed for use in plumbing applications in contact with potable water. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding, extrusion, blow molding, thermoforming or vacuum forming. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Certified by NSF to NSF/ANSI Standard 61: Drinking Water System Components - Health Effects.
- Contains a stabilization system for protection against copper and other metal-catalyzed degradation.

Typical mechanical properties

Stress at 100% elongation	638 psi	ISO 527-1/-2 or ISO 37
Stress at break	1600 psi	ISO 527-1/-2 or ISO 37
Elongation at break	560 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	87	ISO 48-4 / ISO 868

Other properties

Density	500 lb/gal	ISO 1183
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Injection

Drying Temperature	180 °F
Drying Time, Dehumidified Dryer	3 h
Processing Moisture Content	0.08 %
Max. regrind level	20 %
Max. mould temperature	50 - 126 °F
Vent depth	1 mil
Back pressure	50 - 99.9 psi
Injection speed	fast

Extrusion

Drying Temperature	180 °F
Drying Time, Dehumidified Dryer	3 h
Melt Temperature Range	396 °F

Processing Texts

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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