

SANTOPRENE® 3293-40G

Santoprene® 3293-40G TPV is a hard, brownish thermoplastic vulcanization (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and thermal insulation for use in a wide range of applications. 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.

Typical mechanical properties

Stress at 100% elongation	1440 psi	ISO 527-1/-2 or ISO 37
Stress at break	2610 psi	ISO 527-1/-2 or ISO 37
Elongation at break	483 %	ISO 527-1/-2 or ISO 37
Shore D hardness, 15s	39	ISO 48-4 / ISO 868
Shore D hardness, 168h at 150°C	3.8	ISO 48-4 / ISO 868

Other properties

Density	8 lb/gal	ISO 1183
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Injection

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

Melt Temperature Range	383 - 437 °F
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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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