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SANTOPRENE® 201-67W171

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A soft, colorable thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated for low density foamed profile extrusion applications and has long term sealability, low temperature flexibility and heat weldability. This grade of Santoprene™ TPV is shear-dependent and is designed to be processed using specially adapted physical foam extrusion lines. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Can be foamed using water as the physical blowing agent or specific chemical blowing agents.
- Recommended for applications requiring excellent ozone resistance.

Product information

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

Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	2.8	MPa	ISO 37
Tensile stress at break, perpendicular	6.9	MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	450	%	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	71		ISO 48-4 / ISO 868

Physical/Other properties

Density	960	kg/m^3	ISO 1183

Characteristics

Delivery form	Pellets

Additional information

Injection molding	Holding pressure should be about 50 to 75% of the actual injection pressure. A high screw RPM (100 to 200) is recommended. Back pressure is not always needed, however, a back pressure of 0.3 to 0.7 MPa may be used to ensure a homogeneous melt and maintain a consistent shot size. A higher back pressure is normally employed when using masterbatches.
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. For physical foaming, a specially modified thermoplastic extruder equipped with an adapted foaming agent dosing device is required. For mechanical foaming, a 30:1 extruder is recommended.

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