

SANTOPRENE™ 201-67W171 - TPV

Product Description

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.

Characteristics

Color	Natural color
Delivery Form	Pellets
Processing	Foam extrusion

Physical properties	Value	Unit	Test Standard
Density	59.9	lb/ft ³	ASTM D792
Density	59.9	lb/ft ³	ISO 1183

Hardness	Value	Unit	
Shore A hardness-TPE, 15s	71		ISO 868

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	406	psi	ASTM D412
Tensile stress at 100%, perpendicular	406	psi	ISO 37
Tensile strength at break elast, perpendicular	1000	psi	ASTM D412
Tensile stress at break, perpendicular	1000	psi	ISO 37
Elongation at break elast, perpendicular	450	%	ASTM D412
Tensile strain at break, perpendicular	450	%	ISO 37

Other text information

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.