

SANTOPRENE™ 9221-87 - TPV

Product Description

A hard, colorable, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance 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 or blow molding. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Formulated for good UV resistance and colorfastness.

Characteristics

Uses	Outdoor applications
Color	Natural color
Delivery Form	Pellets

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	Test Standard
Shore A hardness-TPE, 15s	93		ISO 868

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	841	psi	ASTM D412
Tensile stress at 100%, perpendicular	841	psi	ISO 37
Tensile strength at break elast, perpendicular	1280	psi	ASTM D412
Tensile stress at break, perpendicular	1280	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.