

SANTOPRENE™ 8291-85TL - TPV

Product Description

A hard, colorable, specialty thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is especially formulated to create multilayer constructions offering bonding to textiles, metals, fluoroelastomers and PAs. This grade of Santoprene™ TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion. It is polyolefin based and recyclable within the manufacturing stream.

Characteristics

Applications	Automotive - Weather Seals, Consumer Applications
Uses	Automotive applications, Hose, Metal bonding, Profiles, Tie-layer
Color	Natural color
Delivery Form	Pellets
Processing	Coextrusion, Extrusion, Profile extrusion

Physical properties	Value	Unit	Test Standard
Density	0.9	g/cm ³	ASTM D792
Density	900	kg/m ³	ISO 1183

Hardness	Value	Unit
Shore A hardness-TPE, 15s	86	

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	4	MPa	ASTM D412
Tensile stress at 100%, perpendicular	4	MPa	ISO 37
Tensile strength at break elast, perpendicular	9.2	MPa	ASTM D412
Tensile stress at break, perpendicular	9.2	MPa	ISO 37
Elongation at break elast, perpendicular	830	%	ASTM D412
Tensile strain at break, perpendicular	830	%	ISO 37

Extrusion	Value	Unit
Adapter temperature	216 - 232	°C
Die head temperature	216 - 232	°C

Other text information

Processing Notes

Desiccant drying for 4 hours at 70°C (160°F) is recommended. Santoprene™ TPV has a wide temperature processing window from 185 to 260°C (365 to 500°F), depending on substrate conditions and residence time, and is incompatible with acetal and PVC.