

SANTOPRENE™ 101-60W261 - TPV

Product Description

A soft, black, versatile 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

- Designed for applications requiring good elastic recovery
- Recommended for applications requiring excellent flex fatigue resistance

Characteristics

Applications	Appliance
Uses	White goods & small appliances
Color	Black
Delivery Form	Pellets
Processing	Blow molding, Coextrusion, Extrusion, Extrusion blow molding, Injection blow molding, Injection molding, Multi injection molding, Profile extrusion, Sheet extrusion

Physical properties	Value	Unit	Test Standard
Density	59.3	lb/ft ³	ASTM D792
Density	59.3	lb/ft ³	ISO 1183

Hardness	Value	Unit
Shore A hardness-TPE, 15s	65	

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	276	psi	ASTM D412
Tensile stress at 100%, perpendicular	276	psi	ISO 37
Tensile strength at break elast, perpendicular	1040	psi	ASTM D412
Tensile stress at break, perpendicular	1040	psi	ISO 37
Elongation at break elast, perpendicular	550	%	ASTM D412
Tensile strain at break, perpendicular	550	%	ISO 37
Compression set, 23 °C, 22h, Type 1, Method B	14	%	ASTM D395
Compression set, 23 °C, 22h, Type A	14	%	ISO 815
Compression set, 100 °C, 22h, Type 1, Method B	39	%	ASTM D395
Compression set, 100 °C, 22h, Type A	39	%	ISO 815

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.