



## TPV – 180A Datasheet

**Description:**

TPV – 180A thermoplastic vulcanizate is a fully crosslinked, EPDM/PP compound. It is designed to replace thermoset elastomers, such as EPDM or polychloroprene, and traditional thermoplastic TPVs. TPV – 180A provides the performance of vulcanized rubber with the advantage of low-cost thermoplastic processing. Excellent oil and chemical resistance with a maximum service temperature of 275°F.

**Applications:**

Suitable for applications requiring flexibility in the following markets: automotive, appliance, business machines, construction, consumer products, electrical & electronics, fluid delivery, hardware, wire and cable, and medical devices.

PROPERTY	Typical Value	Units	Test Method
<b><u>PHYSICAL</u></b>			
<b><u>Hardness</u></b>			
Injection Molded, 5 sec	81	Shore A	ASTM D2240
Extrusion, 5 sec	77		
<b><u>Specific Gravity</u></b>			
23°C	.97		ASTM D792
<b><u>Compression Set [125C, 70H]</u></b>			
22 hr @ 70°C	41	%	ASTM D395
<b><u>Ozone Resistance</u></b>			
500 hr, 100 pphm O <sub>3</sub> conc.	Good		ASTM D1149
<b><u>MECHANICAL</u></b>			
<b><u>Tensile Strength</u></b>			
23°C, 500 mm/min	12.4	Mpa	ASTM D412
<b><u>Tensile Modulus @ 100%</u></b>			
23°C, 500 mm/min	4.7	Mpa	ASTM D412
<b><u>Ultimate Elongation</u></b>			
23°C, 500 mm/min	649	%	ASTM D412
<b><u>Tear Strength</u></b>			
23°C, 500 mm/min	57	kN/m	ASTM D624 (Die C)
<b><u>Flammability</u></b>			
	Pass		UL94-HB
<b><u>Maximum recommended operating temperature: 275°F</u></b>			