



TPV – 175A Datasheet

Description:

TPV – 175A is a thermoplastic Elastomer (TPE), that is based on PP/EPDM. It is designed to replace thermoset elastomers, such as EPDM or polychloroprene, and traditional thermoplastic TPVs/TPEs. TPV – 175A 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. It is ozone, UV and water resistant as well. This grade is also considered polyolefin.

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
<u>PHYSICAL</u>			
<u>Hardness</u>			
Injection Molded, 5 sec	75	Shore A	ASTM D2240
Extrusion, 5 sec	72		
<u>Specific Gravity</u>			
23°C	.97		ASTM D792
<u>Compression Set [125C, 70H]</u>			
22 hr @ 70°C	35	%	ASTM D395
<u>Ozone Resistance</u>			
500 hr, 100 pphm O ₃ conc.	Good		ASTM D1149
<u>MECHANICAL</u>			
<u>Tensile Strength</u>			
23°C, 500 mm/min	10	Mpa	ASTM D412
<u>Tensile Modulus @ 100%</u>			
23°C, 500 mm/min	3.6	Mpa	ASTM D412
<u>Ultimate Elongation</u>			
23°C, 500 mm/min	631	%	ASTM D412
<u>Tear Strength</u>			
23°C, 500 mm/min	47	kN/m	ASTM D624 (Die C)
<u>Flammability</u>			
	Pass		UL94-HB
<u>Maximum recommended operating temperature: 275°F</u>			