



TPV-80A- 400N Datasheet

Description:

TPV – 80A – 400N thermoplastic vulcanizate is a high flow fully crosslinked, EPDM/PP compound. It is designed to replace thermoset elastomers, such as EPDM or polychloroprene, and traditional thermoplastic TPVs. TPV – 80A – 400N 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: industrial, 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	81	Shore A	ISO 868
<u>Specific Gravity</u>			
23°C	.96	g/cc	ISO 1183
<u>Oil Resistance</u>			
125°C, 70 hrs	71	% vol swell	ISO 1817
<u>Compression Set [125C, 70H]</u>			
24 hr @ 23°C	23	%	ISO 815
72 hr @ 125°C	60		
<u>Brittle Point</u>			
	<-50	°C	ISO 812
<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	9	MPa	ISO 527
<u>Tensile Modulus @ 100%</u>			
23°C, 500 mm/min	6	MPa	ISO 527
<u>Ultimate Elongation</u>			
23°C, 500 mm/min	320	%	ISO 527
<u>Tear Strength</u>			
23°C, 500 mm/min	45	kN/m	ISO 34 (Die C)

Properties determined on injection molded slabs, 150mm x 100mm x 2mm