



TPV-75A- 400N Datasheet

Description:

TPV – 75A – 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 – 75A – 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. This grade is designed to adhere to EPDM substrate.

Applications:

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

PROPERTY	Typical Value	Units	Test Method
PHYSICAL			
Hardness			
Injection Molded, 5 sec	75	Shore A	ISO 868
Specific Gravity			
23°C	.94	g/cc	ISO 1183
Oil Resistance			
125°C, 70 hrs	90	% vol swell	ISO 1817
Compression Set [125C, 70H]			
24 hr @ 23°C	22	%	ISO 815
72 hr @ 100°C	50		
Brittle Point			
	<-50	°C	ISO 812
Ozone Resistance			
500 hr, 100 pphm O ₃ conc.	Good		ASTM D1149
MECHANICAL			
Tensile Strength			
23°C, 500 mm/min	7.2	MPa	ISO 527
Tensile Modulus @ 100%			
23°C, 500 mm/min	3.3	MPa	ISO 527
Ultimate Elongation			
23°C, 500 mm/min	420	%	ISO 527
Tear Strength			
23°C, 500 mm/min	45	kN/m	ISO 34 (Die C)
Properties determined on injection molded slabs, 150mm x 100mm x 2mm			