



TPV-55A- 400N Datasheet

Description:

TPV – 55A – 400N thermoplastic vulcanizate is a natural fully crosslinked, EPDM/PP compound. It is designed to replace thermoset elastomers, such as EPDM or polychloroprene, and traditional thermoplastic TPVs. TPV – 55A – 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 is an FDA compliant grade.

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	55	Shore A	ASTM D2240
Extrusion, 5 sec	51		
Injection Molded, 15 sec	54		
<u>Specific Gravity</u>			
23°C	.92 .93		ASTM D792
<u>Compression Set [22 Hr @ 70°C]</u>			
22 Hr @ 70°C	27	%	ASTM D395
<u>Brittle Point</u>			
	-60 -70	°C	ASTM D746
<u>Ozone Resistance</u>			
500 hr, 100 pphm O ₃ conc.	Excellent		ASTM D1149
<u>MECHANICAL</u>			
<u>Tensile Strength</u>			
23°C, 500 mm/min	6.5	Mpa	ASTM D412
<u>Tensile Modulus @ 100%</u>			
23°C, 500 mm/min	2.2	Mpa	ASTM D412
<u>Ultimate Elongation</u>			
23°C, 500 mm/min	427	%	ASTM D412
<u>Tear Strength</u>			
23°C, 500 mm/min	31	kN/m	ASTM D624 (Die C)