



TPV – 245D Datasheet

Description:

TPV – 245D 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 – 245D 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
<u>PHYSICAL</u>			
<u>Hardness</u>			
Injection Molded, 5 sec	45	Shore D	ASTM D2240
Extrusion, 5 sec	43		
<u>Specific Gravity</u>			
23°C	.93		ASTM D792
<u>Compression Set [125C, 70H]</u>			
22 hr @ 70°C	57	%	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	24.3	Mpa	ASTM D412
<u>Tensile Modulus @ 100%</u>			
23°C, 500 mm/min	9.1	Mpa	ASTM D412
<u>Ultimate Elongation</u>			
23°C, 500 mm/min	575	%	ASTM D412
<u>Tear Strength</u>			
23°C, 500 mm/min	81.4	kN/m	ASTM D624 (Die C)
<u>Flammability</u>			
	Pass		UL94-HB
<u>Maximum recommended operating temperature: 275°F</u>			