



## TPV – 240D-400 Datasheet

**Description:**

TPV – 240D-400 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 – 240D-400 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
<b><u>PHYSICAL</u></b>			
<b><u>Hardness</u></b>			
Injection Molded, 5 sec	40	Shore D	ASTM D2240
Extrusion, 5 sec	38		
<b><u>Specific Gravity</u></b>			
23°C	.96		ASTM D792
<b><u>Melt Point</u></b>			
	158.5° C (317F)		
<b><u>Compression Set [125C, 70H]</u></b>			
22 hr @ 70°C	42	%	ASTM D395
70 hr @ 125°C	73	%	
<b><u>Brittle Point</u></b>			
	-70	°C	ASTM D746
<b><u>Ozone Resistance</u></b>			
500 hr, 100 pphm O <sub>3</sub> conc.	Excellent	°C	ASTM D1149
<b><u>MECHANICAL</u></b>			
<b><u>Tensile Strength</u></b>			
23°C, 500 mm/min	18	Mpa	ASTM D412
<b><u>Tensile Modulus @ 100%</u></b>			
23°C, 500 mm/min	9	Mpa	ASTM D412
<b><u>Ultimate Elongation</u></b>			
23°C, 500 mm/min	1100	%	ASTM D412
<b><u>Tear Strength</u></b>			
23°C, 500 mm/min	82	kN/m	ASTM D624 (Die C)
<b><u>Flammability</u></b>			
	Pass		UL94-HB

**Maximum recommended operating temperature: 275°F**