



## TECHNICAL DATASHEET *EZPrene 45A-100*

### Attributes:

- EZPrene TPV is a thermoplastic elastomer containing fully vulcanized EPDM rubber and Polypropylene.
- It is an ideal solution for those applications requiring long term sealing performance even at elevated temperatures up to 135°C (275F).
- Can be processed using conventional thermoplastic processing equipment.
- Suitable for injection molding, blow molding, profile and sheet extrusion applications.
- EZPrene TPV is supplied in weatherable (UV stabilized) black.

### Applications:

EZPrene is a cost effective solution for replacing Santoprene rubber, styrenic based TPEs, and thermoset rubbers such as EPDM, and Polychloroprene. It is an excellent choice for applications requiring flexibility in the following markets: automotive parts, appliance, business machines, construction, consumer products, and electronics.

<u>Property</u>	<u>Typical</u>	<u>Unit</u>	<u>Test Method</u>
<b>PHYSICAL</b>			
Hardness:		Shore A	ASTM D-2240
Injection Molded, 5 sec	45		
Injection Molded, 15 sec	42		
Specific Gravity 23°C	0.94	N/A	ASTM D-792
Melt Flow Index 230 °C, 10 kg load	8 - 15	g/10 min.	ASTM 1238 A
Melt Temperature (°C)	158.5°C (317F)		
Compression Set 22 hr @ 70°C 70 hr @ 125°C	26 52	%	ASTM D-395
Brittle Point	-65	°C	ASTM D-746
Ozone Resistance 500 hr, 100 pphm O <sub>3</sub> conc.	Excellent		ASTM D-1149
<b>MECHANICAL</b>			
Tensile Strength 23°C, 500 mm/min	5.2	MPa	ASTM D-412
Tensile Modulus @ 100% 23°C, 500 mm/min	0.95	MPa	ASTM D-412
Ultimate Elongation 23°C, 500 mm/min	560	%	ASTM D-412
Tear Strength 23°C, 500 mm/min	12	kN/m	ASTM D-624 (Die C)

**Dry material at 180 °F for 3 hours before use!**  
*Please Contact PPI for additional processing information.*