



POLYPRIME, INC.

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TECHNICAL DATASHEET

EZPrene 55A-100

Attributes:

- EZPrene TPV is a thermoplastic elastomer containing fully vulcanized EPDM rubber.
- 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.
- EZPrene TPV is in compliance with FDA, CFR title 21 Section 177.2600 “Rubber articles intended for repeated use”; and 177.1210 “Closures with sealing gaskets for food containers”.

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>
PHYSICAL			
Hardness:		Shore A	ASTM D-2240
Injection Molded, 5 sec	55		
Injection Molded, 15 sec	52		
Specific Gravity		N/A	ASTM D-792
23°C	0.96		
Melt Flow Index	8 - 15	g/10 min.	ASTM 1238 A
230 °C, 10 kg load			
Melt Temperature (°C)	158.5°C (317F)		
Compression Set		%	ASTM D-395
22 hr @ 70°C	27		
70 hr @ 125°C	47		
Brittle Point	-65	°C	ASTM D-746
Ozone Resistance	Excellent		ASTM D-1149
500 hr, 100 pphm O ₃ conc.			
MECHANICAL			
Tensile Strength	6.2	MPa	ASTM D-412
23°C, 500 mm/min			
Tensile Modulus @ 100%	2.2	MPa	ASTM D-412
23°C, 500 mm/min			
Ultimate Elongation	427	%	ASTM D-412
23°C, 500 mm/min			
Tear Strength	31	kN/m	ASTM D-624 (Die C)
23°C, 500 mm/min			

Dry material at 180 °F for 3 hours before use!

Please Contact PPI for additional processing information.