



PolyPrime Inc.

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TECHNICAL DATASHEET EZPrene® 35A-100

Attributes:

- EZPrene is a thermoplastic vulcanizate containing EPDM and PP.
- It is designed for applications requiring long term sealing performance even at elevated temperatures up to 135°C (275F).
- Soft-touch feel for grips and handles used in automotive and consumer goods.
- Suitable for injection molding, profile extrusion and sheet applications.
- Conventional thermoplastic processing equipment can be used for processing.

Applications:

EZPrene is a cost effective solution for replacing Santoprene rubber, styrene based TPEs, flexible PVC, 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:			ASTM D-2240
Injection Molded, 5 sec	38	Shore A	
Injection Molded, 15 sec	35		
Specific Gravity 23°C	0.93	N/A	ASTM D-792
Melt Point	158.5°C (317F)		
Compression Set			
22 hr @ 70°C	14	%	ASTM D-395
70 hr @ 125°C	30		
Brittle Point	-70	°C	ASTM D-746
Ozone Resistance			
500 hr, 100 pphm O ₃ conc.	Excellent		ASTM D-1149
MECHANICAL			
Tensile Strength			
23°C, 500 mm/min	2.1	MPa	ASTM D-412
Tensile Modulus @ 100%			
23°C, 500 mm/min	1.3	MPa	ASTM D-412
Ultimate Elongation			
23°C, 500 mm/min	250	%	ASTM D-412
Tear Strength			
23°C, 500 mm/min	12	kN/m	ASTM D-624 (Die C)
PROPERTY CHANGE AFTER HEAT AGING - 150 degree C (302 °F) 168 hr exposure in air			
Tensile Strength	-8	%	ASTM D-573
Ultimate Elongation	-6	%	ASTM D-573
Hardness	2		ASTM D-573

Datasheet contains typical values! Actual lot data may vary slightly.