



PolyPrime Inc.

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TECHNICAL DATASHEET EZPrene® 45A-400

Attributes:

- EZPrene® is a thermoplastic vulcanizate (TPV) containing EPDM and PP. The Rubber phase (EPDM) is fully cured. "No need for additional step for curing"
- Conventional thermoplastic processing equipment can be used.
- It is designed for applications requiring long term sealing performance even at elevated temperatures up to 135°C (275F).
- Soft-touch for grips and handles used in automotive and consumer goods.
- Suitable for injection molding, profile extrusion and sheet applications.
- EZPrene® 45A-400 is available with UV stabilization additives and meets the most stringent automotive weathering requirements.

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	45	Shore A	
Injection Molded, 15 sec	43		
Specific Gravity 23°C	0.93	N/A	ASTM D-792
Melt Flow Index 230 °C, 10 kg load	>100	g/10 min.	ASTM 1238 A
Melt Point	155.5°C (312F)		
Compression Set 22 hr @ 70°C 70 hr @ 125°C	30 40	%	ASTM D-395
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	4.1	MPa	ASTM D-412
Tensile Modulus @ 100% 23°C, 500 mm/min	1.5	MPa	ASTM D-412
Ultimate Elongation 23°C, 500 mm/min	550	%	ASTM D-412
Tear Strength 23°C, 500 mm/min	12	kN/m	ASTM D-624 (Die C)

EZPrene TPV is Marketed and Distributed by TPE Solution Inc. Ph. 978-425-3033