



# EZPRENE® 9555A PA

ENPLAST Americas, a Ravago Group Company - Thermoplastic Vulcanizate

Wednesday, November 6, 2019

## General Information

### Product Description

55 Shore A TPE (Thermoplastic Vulcanizate) boundable to nylon. Available in black, natural for injection molding applications with long flow lengths or requires highly cosmetic surface. This soft, easy to color material is non-hygroscopic and offers excellent chemical resistance and physical properties. EZPrene 9500 series materials are polyolefin based and 100% recyclable.

### General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Chemical Resistant • Fatigue Resistant • Good Adhesion	• Good Colorability • Low to No Water Absorption • Ozone Resistant	• Recyclable Material • Soft • UV Resistant
Automotive Specifications	• GM GMW15817P-TPV(EPDM+PP) Type 1		
Appearance	• Black	• Natural Color	
Processing Method	• Injection Molding		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.922		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	145	psi	ASTM D412
Tensile Strength (Break)	522	psi	ASTM D412
Tensile Elongation (Break)	520	%	ASTM D412
Tear Strength	103	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	55		
Shore A, 5 sec, Injection Molded	58		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-94.0	°F	ASTM D746
Dynamic Service Temperature	266	°F	

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	380 to 400	°F
Middle Temperature	430 to 450	°F
Front Temperature	480 to 500	°F
Nozzle Temperature	480 to 500	°F
Processing (Melt) Temp	480 to 500	°F
Mold Temperature	100 to 125	°F
Injection Pressure	750 to 1300	psi
Injection Rate	Fast	
Screw Speed	50 to 200	rpm
Clamp Tonnage	2.0 to 3.5	tons/in <sup>2</sup>

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Injection	Nominal Value	Unit
Cushion	0.200 to 0.500	in

## Injection Notes

Holding Time: 5 to 7 Sec.

Cooling Time: 30 to 50 Sec.

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.