



# EZPRENE® 9555A SHF

ENPLAST Americas, a Ravago Group Company - Thermoplastic Vulcanizate

Wednesday, November 6, 2019

## General Information

### Product Description

55 Shore A TPE (Thermoplastic Vulcanizate). 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	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>		
Availability	<ul style="list-style-type: none"> <li>North America</li> </ul>		
Features	<ul style="list-style-type: none"> <li>Chemical Resistant</li> <li>Fatigue Resistant</li> <li>Good Adhesion</li> </ul>	<ul style="list-style-type: none"> <li>Good Colorability</li> <li>Low to No Water Absorption</li> <li>Ozone Resistant</li> </ul>	<ul style="list-style-type: none"> <li>Recyclable Material</li> <li>Soft</li> <li>UV Resistant</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Black</li> </ul>	<ul style="list-style-type: none"> <li>Natural Color</li> </ul>	
Processing Method	<ul style="list-style-type: none"> <li>Extrusion</li> <li>Injection Molding</li> </ul>		

## 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)	620	%	ASTM D412
Tear Strength	54.2	lbf/in	ASTM D624
Compression Set			ASTM D395
73°F, 22 hr	30	%	
257°F, 70 hr	44	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	54		
Shore A, 5 sec, Injection Molded	57		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-94.0	°F	ASTM D746
Dynamic Service Temperature	266	°F	
Additional Information	Nominal Value	Unit	Test Method
Ozone Resistance	Excellent		ASTM D1149

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	375 to 400	°F
Middle Temperature	385 to 410	°F
Front Temperature	385 to 410	°F
Nozzle Temperature	410 to 430	°F
Processing (Melt) Temp	390 to 430	°F
Mold Temperature	75 to 125	°F

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Injection	Nominal Value	Unit
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>
Cushion	0.200 to 0.500	in

## Injection Notes

Holding Time: 5 to 7 Sec.

Cooling Time: 30 to 50 Sec.

Extrusion	Nominal Value	Unit
Hopper Temperature	330 to 350	°F
Cylinder Zone 1 Temp.	340 to 375	°F
Cylinder Zone 2 Temp.	340 to 375	°F
Cylinder Zone 3 Temp.	340 to 375	°F
Cylinder Zone 4 Temp.	340 to 375	°F
Cylinder Zone 5 Temp.	340 to 375	°F
Adapter Temperature	375 to 410	°F
Melt Temperature	375 to 390	°F
Die Temperature	375 to 410	°F
Screw L/D Ratio	24.0:1.0	

## Extrusion Notes

Compression Zone: 355 - 390°F (180 - 200°C)

Metering Zone: 375 to 410°F (190 to 210°C)

Screw Speed: 30 - 80 rpm

Screen Pack: 20/40/60

## Notes

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