

EZPrene 9045A

Thermoplastic Vulcanizate

ENPLAST Americas, a Ravago Group Company

Message:

45 Shore A TPE (Thermoplastic Vulcanizate). Available in black, natural or pre-colored for injection molding and extrusion applications. This ultra-soft, easy to color material is non- hygroscopic and offers excellent chemical resistance and physical properties. EZPrene is polyolefin based and is 100% recyclable.

General Information	
Features	Good UV resistance
	Recyclable materials
	Good coloring
	Good adhesion
	Ozone resistance
	Good chemical resistance
	Fatigue resistance
	Soft
	Low or no water absorption

Appearance	Black
	Available colors
	Natural color

Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
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Specific Gravity	0.930	g/cm ³	ASTM D792
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Hardness	Nominal Value	Unit	Test Method
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Durometer Hardness			ASTM D2240
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Shaw A, 5 seconds, extruded	45		ASTM D2240
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Shore A, 5 seconds, injection molding	47		ASTM D2240
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Elastomers	Nominal Value	Unit	Test Method
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Tensile Stress (100% Strain)	1.40	MPa	ASTM D412
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Tensile Strength (Break)	4.00	MPa	ASTM D412
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Tensile Elongation (Break)	550	%	ASTM D412
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Tear Strength	12.0	kN/m	ASTM D624
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Compression Set			ASTM D395
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23°C, 22 hr	28	%	ASTM D395
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125°C, 70 hr	38	%	ASTM D395
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Thermal	Nominal Value	Unit	Test Method
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Brittleness Temperature	-65.0	°C	ASTM D746
Dynamic Service Temperature	130	°C	
Ozone Resistance	Excellent		ASTM D1149
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0 - 3.0	hr	
Rear Temperature	191 - 204	°C	
Middle Temperature	196 - 210	°C	
Front Temperature	196 - 210	°C	
Nozzle Temperature	210 - 221	°C	
Processing (Melt) Temp	199 - 221	°C	
Mold Temperature	23.9 - 51.7	°C	
Injection Pressure	5.17 - 8.96	MPa	
Injection Rate	Fast		
Screw Speed	50 - 200	rpm	
Clamp Tonnage	2.8 - 4.8	kN/cm ²	
Cushion	5.08 - 12.7	mm	

Injection instructions

Holding Time: 5 to 7 Sec.Cooling Time: 30 to 50 Sec.

Extrusion	Nominal Value	Unit	
Hopper Temperature	166 - 177	°C	
Cylinder Zone 1 Temp.	171 - 191	°C	
Cylinder Zone 2 Temp.	171 - 191	°C	
Cylinder Zone 3 Temp.	171 - 191	°C	
Cylinder Zone 4 Temp.	171 - 191	°C	
Cylinder Zone 5 Temp.	171 - 191	°C	
Adapter Temperature	191 - 210	°C	
Melt Temperature	191 - 199	°C	
Die Temperature	191 - 210	°C	

Extrusion instructions

Screw: L/D 24:1 minimumCompression Zone: 355 - 390°F (180 - 200°C)Metering Zone: 375 to 410°F (190 to 210°C)Screw Speed: 30 - 80 rpmScreen Pack: 20/40/60

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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