

## ExxonMobil Vyram™ 9101-55 Thermoplastic Elastomer (discontinued \*\*)

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

### Material Notes:

A soft, black, versatile thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is designed for applications requiring good flexibility, appearance and sealing characteristics. This grade of Vyram TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding or extrusion. It is polyolefin based and completely recyclable. Information provided by Advanced Elastomer Systems

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Vyram-9101-55-Thermoplastic-Elastomer-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ExxonMobil-Vyram-9101-55-Thermoplastic-Elastomer-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	.12 in; ASTM D2240
	60	60	302°F, 168 hr; ASTM D573
Tensile Strength at Break	4.21 MPa	610 psi	Across Flow; ASTM D412
	4.584 MPa	664.9 psi	302°F, 168 hr; ASTM D573
Tensile Strength, Ultimate	1.79 MPa	260 psi	Across Flow; ASTM D412
Elongation at Break	460 %	460 %	Across Flow; ASTM D412
	634.8 %	634.8 %	302°F, 168 hr; ASTM D573
Tear Strength	23.0 kN/m	131 pli	73°F, Die C; ASTM D624
Compression Set	18 %	18 %	73°F, 22 hr; ASTM D395
	43 %	43 %	212°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-67.8 °C	-90.0 °F	ASTM 746

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Rear Barrel Temperature	188 °C	370 °F	
Middle Barrel Temperature	191 °C	375 °F	

Front Barrel Temperature Processing Properties	193 °C Metric	380 °F English	Comments
Nozzle Temperature	199 °C	390 °F	
Die Temperature	204 °C	400 °F	Extrusion
Melt Temperature	177 - 204 °C	350 - 400 °F	Extrusion
	204 °C	400 °F	
Mold Temperature	10.0 - 51.7 °C	50.0 - 125 °F	Processing
Drying Temperature	82.2 °C	180 °F	
Dry Time	3 hour	3 hour	
Moisture Content	0.080 %	0.080 %	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	Processing
	5.00 - 20.0 MPa	725 - 2900 psi	Extrusion
Clamp Pressure	41.4 - 68.9 MPa	6000 - 10000 psi	
Vent Depth	0.00254 cm	0.00100 in	
Cushion	0.317 - 0.635 cm	0.125 - 0.250 in	
Screw Speed	100 - 200 rpm	100 - 200 rpm	

Descriptive Properties	Value	Comments
Color	Black	
Form	Pellets	
Injection Rate	Fast	
Maximum Re grind %	20	
Screw Compression Ratio	2:1 - 2.5:1	
Screw L/D Ratio	16:1 - 20:1	

## Contact Songhan Plastic Technology Co.,Ltd.

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