

ExxonMobil Vyram™ 9103-54 Thermoplastic Elastomer (discontinued **)

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

Material Notes:

A hard, 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, extrusion or blow molding. 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-9103-54-Thermoplastic-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.940 g/cc	0.940 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	54	54	.12 in; ASTM D2240
Tensile Strength, Yield	11.118 MPa	1612.5 psi	212°F, 70 hr, in IRM 903 Oil; ASTM D573
	14.8 MPa	2150 psi	ASTM D638
	18.219 MPa	2642.5 psi	Air at 302°F, 168 hr; ASTM D573
Elongation at Yield	13.2 %	13.2 %	212°F, 70 hr, in IRM 903 Oil; ASTM D573
	14.6 %	14.6 %	Air at 302°F 168; ASTM D573
	20 %	20 %	ASTM D638
Tear Strength	110 kN/m	628 pli	73°F, Die C; ASTM D624

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-36.1 °C	-33.0 °F	ASTM 746

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Rear Barrel Temperature	191 °C	375 °F	
Middle Barrel Temperature	199 °C	390 °F	
Front Barrel Temperature	207 °C	405 °F	
Nozzle Temperature	210 °C	410 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	177 - 204 °C	350 - 400 °F	Extrusion
	227 °C	440 °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	
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 Regrind %	20	
Screw Compression Ratio	2:1 - 2.5:1	
Screw L/D Ratio	16:1 - 20:1	

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