

ExxonMobil Vyram™ 9103-45 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-9103-45-Thermoplastic-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45	45	.12 in; ASTM D2240
	48	48	302°F, 168 hr; ASTM D573
Tensile Strength at Break	13.350 MPa	1936.3 psi	212°F, 70 hr, in IRM Oil; ASTM D471
	16.538 MPa	2398.7 psi	302°F, 168 hr; ASTM D573
	19.9 MPa	2890 psi	Across Flow; ASTM D412
Tensile Strength, Ultimate	10.8 MPa	1570 psi	Across Flow; ASTM D412
Elongation at Break	412.5 %	412.5 %	212°F, 70 hr, in IRM Oil; ASTM D471
	525 %	525 %	302°F, 168 hr; ASTM D573
	750 %	750 %	Across Flow; ASTM D412
Tear Strength	88.0 kN/m	502 pli	73°F, Die C; ASTM D624

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-43.9 °C	-47.0 °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	199 °C Metric	390 °F English	Comments
Nozzle Temperature	204 °C	400 °F	
Die Temperature	221 °C	430 °F	Extrusion
Melt Temperature	177 - 216 °C	350 - 420 °F	Extrusion
	210 °C	410 °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 Regrind %	20	
Screw Compression Ratio	2:1 - 2.5:1	
Screw L/D Ratio	16:1 - 20:1	

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