

ExxonMobil Vyram™ 9201-45 Thermoplastic Elastomer (discontinued **)

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

Material Notes:

A soft, colorable, 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. Recommended for applications requiring excellent flex fatigue resistance. Recommended for applications requiring excellent ozone resistance. Used in sealing applications. Information provided by Advanced Elastomer Systems

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Vyram-9201-45-Thermoplastic-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	44	44	302°F, 168 hr; ASTM D573
	45	45	.12 in; ASTM D2240
Tensile Strength at Break	1.68 MPa	243 psi	212°F, 70 hr, in IRM Oil; ASTM D471
	2.79 MPa	405 psi	302°F, 168 hr; ASTM D573
	3.10 MPa	450 psi	Across Flow; ASTM D412
Tensile Strength, Ultimate	1.38 MPa	200 psi	Across Flow; ASTM D412
Elongation at Break	156 %	156 %	212°F, 70 hr, in IRM Oil; ASTM D471
	390 %	390 %	Across Flow; ASTM D412
	393.9 %	393.9 %	302°F, 168 hr; ASTM D573
Compression Set	23 %	23 %	73°F, 22 hr; ASTM D395
	34 %	34 %	212°F, 70 hr; ASTM D395
	39 %	39 %	257°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-57.8 °C	-72.0 °F	ASTM 746

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	191 °C	375 °F	
Front Barrel Temperature	193 °C	380 °F	
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	Natural Color	
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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