

ExxonMobil Geolast® 703-45 Thermoplastic Elastomer

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

Material Notes:

A hard, black, oil resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good hot air and hot oil resistance for use in a wide range of applications. This grade of Geolast 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. Recyclable. Designed for improved fluid resistance. Information provided by Advanced Elastomer Systems

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Geolast-703-45-Thermoplastic-Elastomer.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	45	45	.12 in; ASTM D2240
	46	46	Air at 257°F, 168 hr; ASTM D573
Tensile Strength at Break	17.0 MPa	2470 psi	Across Flow; ASTM D412
	17.541 MPa	2544.1 psi	Air at 257°F, 168 hr; ASTM D573
Tensile Strength, Ultimate	11.3 MPa	1640 psi	Across Flow; ASTM D412
	303.4 %	303.4 %	Air at 257°F, 168 hr; ASTM D573
Elongation at Break	370 %	370 %	Across Flow; ASTM D412
	87.1 kN/m	497 pli	73°C, Die C; ASTM D624

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-27.2 °C	-17.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Melt Temperature	<= 102 °C	<= 215 °F	

Descriptive Properties	Value	Comments
Change in Mass in IRM 903 Oil at 257°F for 70 hr	0.41	
Color	Black	

Form Descriptive Properties	Delete Value	Comments
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