

ExxonMobil Geolast® 701-80W183 Thermoplastic Elastomer

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

Material Notes:

A soft, 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-701-80W183-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	.12 in; ASTM D2240
	85	85	Air at 257°F, 168 hr; ASTM D573
Tensile Strength at Break	6.04 MPa	876 psi	257°F, 70 hr in IRM 903 Oil; ASTM D471
	8.27 MPa	1200 psi	Across Flow; ASTM D412
	8.356 MPa	1212 psi	Air at 257°F, 168 hr; ASTM D573
Tensile Strength, Ultimate	4.69 MPa	680 psi	Across Flow; ASTM D412
Elongation at Break	186 %	186 %	257°F, 70 hr in IRM 903 Oil; ASTM D471
	213 %	213 %	Air at 257°F, 168 hr; ASTM D573
	300 %	300 %	Across Flow; ASTM D412
Tear Strength	27.0 kN/m	154 pli	73°C, Die C; ASTM D624
Compression Set	30 %	30 %	158°F, 22 hr; ASTM D395
	37 %	37 %	257°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-35.0 °C	-31.0 °F	ASTM D746

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

Processing Properties	Metric °C	English °F	Comments	
Descriptive Properties			Value	Comments
Change in Mass in IRM 903 Oil at 257°F for 70 hr			0.64	
Color			Black	
Form			Pellets	

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