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Geolast™ 701–70 Thermoplastic Vulcanizate

Product Description		Key Features				
A soft, black, oil resistant thermoplast thermoplastic elastomer (TPE) family air and hot oil resistance for use in a v grade of Geolast TPV is shear-depend conventional thermoplastics equipme or blow molding. It is polyolefin based manufacturing stream.	This material combines good hot vide range of applications. This dent and can be processed on ent for injection molding, extrusion	 Recyclable. Designed for improved fluid response fluid response fluid response for the second se	esistance.			
General						
Availability ¹	 Africa & Middle East Asia Pacific	EuropeLatin America	 North Ar 	merica		
Applications	 Automotive - Seals and Ga 	Automotive - Seals and Gaskets Oil Resistant Seals and Gaskets				
Uses	 Automotive Applications 	Industrial Applications				
RoHS Compliance	 RoHS Compliant 					
Automotive Specifications	 GM GMP.E/P.081 					
Color	 Black 					
Form(s)	 Pellets 					
Processing Method	 Blow Molding Extrusion Blow Molding Multi Injection Coextrusion Injection Blow Molding Profile Extrusion Injection Molding Sheet Extrusion 		xtrusion			
Revision Date	• 06/17/2014					
Physical	Typical Value (Engl	ish) Typical Value	(SI)	Test Based On		
Density / Specific Gravity	1.04	1.04		ASTM D792		
Density	1.04 g/cm	³ 1.04	g/cm³	ISO 1183		
Hardness	Typical Value (Engl	ish) Typical Value	(SI)	Test Based On		
Shore Hardness				ISO 868		
Shore A, 15 sec, 73°F (23°C)	75	75				

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Brittleness Temperature	-26	°F	-32	°C	ISO 812
Brittleness Temperature	-26	°F	-32	°C	ASTM D746
hermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
257°F (125°C), 70 hr, Type A	36	%	36	%	
158°F (70°C), 22 hr, Type A	29		29		
Compression Set					ISO 815
257°F (125°C), 70 hr, Type 1	36	%	36	%	
158°F (70°C), 22 hr, Type 1	29		29		
Compression Set					ASTM D395B
73°F (23°C), Method Bb, Angle (Nicked)	110	lbf/in	20	kN/m	
Tear Strength - Across Flow					ISO 34-1
Fear Strength - Across Flow ∕73°F (23°C), Die C)	114	lbf/in	20.0	kN/m	ASTM D624
Fensile Strain at Break - Across Flow 73°F (23°C))	220	%	220	%	ISO 37
ilongation at Break - Across Flow 73°F (23°C))	220	%	220	%	ASTM D412
Fensile Stress at Break - Across Flow 73°F (23°C))	841	psi	5.80	MPa	ISO 37
Fensile Strength at Break - Across Flow 73°F (23°C))	841	psi	5.80	MPa	ASTM D412
「ensile Stress at 100% - Across Flow 73°F (23°C))	551	psi	3.80	MPa	ISO 37
ensile Stress at 100% - Across Flow 73°F (23°C))	551	psi	3.80	MPa	ASTM D412
astomers	Typical Value	(English)	Typical Value	(SI)	Test Based On

Injection Notes

Geolast TPV is incompatible with acetal and PVC. For more information regarding processing and mold design, please consult our Injection Molding Guide.

Extrusion Notes

Geolast TPV is incompatible with acetal and PVC. For more information regarding processing and die design, please consult our Extrusion Guide.

Aging	Typical Value (English)	Typical Value (SI)	Test Based On
Change in Tensile Strength in Air	Typical Value (English)	Typical value (ci)	ASTM D573
5	5.0.04		ASTIVI D373
257°F (125°C), 168 hr	5.0 %	5.0 %	
Change in Tensile Strength in Air			ISO 188
257°F (125°C), 168 hr	5.0 %	5.0 %	
Change in Ultimate Elongation in Air			ASTM D573
257°F (125°C), 168 hr	-23 %	-23 %	
Change in Tensile Strain at Break in Air			ISO 188
257°F (125°C), 168 hr	-23 %	-23 %	
Change in Durometer Hardness in Air			ASTM D573
Shore A, 257°F (125°C), 168 hr	0.0	0.0	
Change in Shore Hardness in Air			ISO 188
Shore A, 257°F (125°C), 168 hr	0.0	0.0	

Additional Information

Where applicable, test results based on fan gated, injection molded plaques.

Tensile strength, elongation and tensile stress are measured across the flow direction - ISO type 1, ASTM die C.

Compression set at 25% deflection.

This product may be manufactured by a third party under contract with Exxon Mobil Corporation or one of its affiliates, pursuant to a quality management system which complies with the requirements of ISO 9001:2015.

All products purchased directly from an ExxonMobil affiliate in Europe are REACH compliant. For products not imported into Europe by ExxonMobil, customers should assess their legal responsibilities under REACH.

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Legal Statement

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

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Processing Statement

Desiccant drying for 3 hours at 80°C (180°F) is recommended. Geolast TPV has a wide temperature processing window from 175 to 230°C (350 to 450°F) and is incompatible with acetal and PVC. The melt temperature should be maintained below 215°C (420°F). For more information, please consult our Safety Data Sheet, Injection Molding Guide and Extrusion Guide.

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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