

# Sarlink® TPV 3139D

Teknor Apex Company - Thermoplastic Vulcanizate

Thursday, June 29, 2017

## General Information

### Product Description

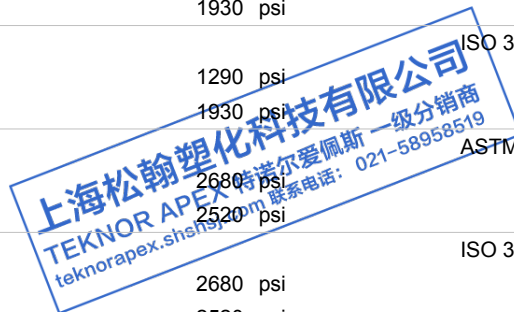
SARLINK® TPV 3100 series are engineered materials designed primarily for general purpose, automotive and industrial applications requiring a good balance of thermal, mechanical, and physical properties. SARLINK® 3139D, available in NAT and BLK, is a hard hardness, low density, multi-purpose thermoplastic vulcanizate that can be processed by injection molding, blow molding or extrusion for applications such as grips, seals, gaskets, profiles, hose & tubes, bellows, and other articles.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Fatigue Resistant • Good Adhesion • Good Moldability	• Good Processability • Good Surface Finish • High Hardness • Low Density	• Low Specific Gravity • Medium Heat Resistance • Resilient • Weather Resistant
Uses	• Automotive Applications • Automotive Exterior Parts • Automotive Interior Parts • Automotive Under the Hood	• Blow Molding Applications • Grommets • Industrial Applications • Plugs	• Profiles • Weatherstripping
Agency Ratings	• UL 94		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• GM QK 000060 Type A Color: Black • GM QK 3532 Type 2 Color: Natural, Black • PSA Peugeot-Citroën B62 0300 version G Color: Black • RENAULT F.E.M. 03 20 007 Color: Black • TOYOTA TSM 5529G Color: Black • VAG VW501 23 Color: Black • VOLKSWAGEN TL 1010 Color: Black • VOLKSWAGEN VW 50180 Color: Black		
Appearance	• Black	• Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Blow Molding	• Extrusion	• Injection Molding

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940		ASTM D792
Density	0.940	g/cm <sup>3</sup>	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	1290	psi	
Flow : 100% Strain	1930	psi	
Tensile Stress			ISO 37
Across Flow : 100% Strain	1290	psi	
Flow : 100% Strain	1930	psi	
Tensile Strength			ASTM D412
Across Flow : Break	2680	psi	
Flow : Break	2520	psi	
Tensile Stress			ISO 37
Across Flow : Break	2680	psi	
Flow : Break	2520	psi	



Revision Date: 7/7/2016

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.

# Sarlink® TPV 3139D

## Teknor Apex Company - Thermoplastic Vulcanizate

Elastomers	Nominal Value	Unit	Test Method
Tensile Elongation			ASTM D412
Across Flow : Break	700	%	
Flow : Break	400	%	
Tensile Elongation			ISO 37
Across Flow : Break	700	%	
Flow : Break	400	%	
Tear Strength - Across Flow	580	lbf/in	ASTM D624
Tear Strength - Across Flow <sup>2</sup>	580	lbf/in	ISO 34-1
Compression Set			ASTM D395
73°F, 22 hr	53	%	
158°F, 22 hr	67	%	
257°F, 70 hr	85	%	
Compression Set			ISO 815
73°F, 22 hr	53	%	
158°F, 22 hr	67	%	
257°F, 70 hr	85	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D, 5 sec, Extruded	38		
Shore D, 5 sec, Injection Molded	41		
Shore Hardness			ISO 868
Shore D, 5 sec, Extruded	38		
Shore D, 5 sec, Injection Molded	41		
Thermal	Nominal Value	Unit	Test Method
RTI Elec	122	°F	UL 746
RTI Imp	122	°F	UL 746
RTI Str	122	°F	UL 746
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ASTM D573
275°F, 1000 hr	-5.0	%	
100% Strain, 275°F, 1000 hr	9.0	%	
302°F, 168 hr	-7.0	%	
100% Strain, 302°F, 168 hr	11	%	
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1000 hr	-5.0	%	
100% Strain 275°F, 1000 hr	9.0	%	
302°F, 168 hr	-7.0	%	
100% Strain 302°F, 168 hr	11	%	
Change in Ultimate Elongation in Air - Across Flow			ASTM D573
275°F, 1000 hr	90	%	
302°F, 168 hr	89	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
275°F, 1000 hr	10	%	
302°F, 168 hr	11	%	
Change in Durometer Hardness in Air			ASTM D573
Shore D, 275°F, 1000 hr	0.0		
Shore D, 302°F, 168 hr	1.0		

上海松翰塑化科技有限公司  
TEKNOR APEX 一级经销商  
teknapex.shhsj.com 联系电话: 021-58958958

Revision Date: 7/7/2016

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.

# Sarlink® TPV 3139D

## Teknor Apex Company - Thermoplastic Vulcanizate

Aging	Nominal Value	Unit	Test Method
Change in Shore Hardness in Air			ISO 188
Shore D, 275°F, 1000 hr	0.0		
Shore D, 302°F, 168 hr	1.0		
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	55	%	ASTM D471
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	55	%	ISO 1817
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in, All Colors)	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s			
392°F	310	Pa·s	ISO 11443
392°F	310	Pa·s	ASTM D3835

### Legal Statement

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0	hr
Rear Temperature	356 to 419	°F
Middle Temperature	356 to 419	°F
Front Temperature	356 to 419	°F
Nozzle Temperature	369 to 428	°F
Processing (Melt) Temp	365 to 428	°F
Mold Temperature	50 to 131	°F
Back Pressure	14.5 to 145	psi
Screw Speed	100 to 200	rpm
Extrusion	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	356 to 392	°F
Cylinder Zone 2 Temp.	356 to 401	°F
Cylinder Zone 3 Temp.	369 to 410	°F
Cylinder Zone 4 Temp.	369 to 410	°F
Melt Temperature	383 to 419	°F
Die Temperature	383 to 419	°F
Take-Off Roll	68 to 122	°F
Extrusion Notes		
Screen Pack: 20 to 60 mesh		
Screw: general purpose		
Compression Ratio: 3:1		

上海松翰塑化科技有限公司  
TEKNOR APEX 特诺尔爱佩斯 一级分销商  
teknorapex.shshsj.com 联系电话: 021-58958519

Revision Date: 7/7/2016

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.

# Sarlink® TPV 3139D

## Teknor Apex Company - Thermoplastic Vulcanizate

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Method Ba, Angle (Unnicked)

---

#### Teknor Apex Company Corporate Headquarters

*In U.S. for Vinyls, TPEs, Colorants,  
Engineered Thermoplastics (Chem Polymer)*  
505 Central Avenue  
Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000  
Fax: 401-725-8095  
Toll Free (U.S. only) 800-556-3864

#### Teknor Apex U.K. Ltd.

Tat Bank Road  
Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100  
Fax: (44) 121-544-5530

etpsales@teknorapex.co.uk

info@teknorapex.com



Revision Date: 7/7/2016

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.