

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® 3170, available in NAT and BLK, is a medium 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	Asia Pacific	Latin America		
Availability	 Europe 	 North America 		
	 Bondability 	 Good Moldability 	Medium Hardness	
	 Chemical Resistant 	 Good Processability 	Medium Heat Resistance	
Features	 General Purpose 	 Good Surface Finish 	Resilient	
	 Good Adhesion 	 High Elasticity 	Weather Resistant	
	 Good Flexibility 	 Low Density 	· Weather Resistant	
	 Appliance Components 	 Gaskets 	Pipe Seals	
	 Automotive Applications 	 General Purpose 	Profiles	
Uses	Automotive Exterior Parts	Handles	Rubber Replacement	
	Automotive Interior Parts	Hose	Seals	
	Automotive Under the Hood	Industrial Applications	Tubing	
	Blow Molding Applications	O-rings		
Agency Ratings	• UL 94			
RoHS Compliance	RoHS Compliant			
	BMW Mini/BMW Unspecified Color: Natural			
	CHRYSLER MS-AR-80 Type C Color: Black			
	CHRYSLER MS-AR-80 Type C Color: Natural			
	DAIMLER DBL 5556.21 Color: Black			
	DAIMLER DBL 5562.30 Color: Black			
Automotive Specifications	GM QK 3523 L Color: Black			
	GM QK 3523 L Color: Natural			
	PSA Peugeot-Citroën B62 0300 version G Color: Black TOYOTA TOWN 17070 T.O. I. D. I. J. I.			
	TOYOTA TSM 1707G-7 Color: Black NAS NASS 100 G Plant Plan			
	VAG VW501 23 Color: Black VOLKSWAGEN VW 50180 Color: Black			
Appearance	Black	Natural Color	Opaque	
Forms	• Pellets			
Processing Method	Blow Molding	 Extrusion 	 Injection Molding 	

ASTM	& ISO	Pro	perties ¹
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Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950		ASTM D792
Density	0.950	g/cm³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method

Tensile Stress

Across Flow: 100% Strain Flow: 100% Strain

Tensile Stress

Across Flow: 100% Strain Flow: 100% Strain

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740 psi

ISO 37

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Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412
Across Flow : Break	1120	psi	
Flow : Break	972	psi	
Tensile Stress			ISO 37
Across Flow : Break	1120	psi	
Flow : Break	972	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	670	%	
Flow : Break	300	%	
Tensile Elongation			ISO 37
Across Flow : Break	670	%	
Flow : Break	300	%	
Tear Strength - Across Flow	240	lbf/in	ASTM D624
Tear Strength - Across Flow ²	240	lbf/in	ISO 34-1
Compression Set			ASTM D395
73°F, 22 hr	25	%	
158°F, 22 hr	43	%	
257°F, 70 hr	63	%	
Compression Set			ISO 815
73°F, 22 hr	25	%	
158°F, 22 hr	43	%	
257°F, 70 hr	63	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	71		
Shore A, 5 sec, Injection Molded	75		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	71		
Shore A, 5 sec, Injection Molded	75		
[hermal	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	-8.0	%	
100% Strain, 275°F, 1000 hr	10	%	
302°F, 168 hr	-4.0	%	
100% Strain, 302°F, 168 hr	5.0	%	
Change in Tensile Strength in Air - Across Flow			以后以SO 188 级分销商 ₁₇₋₅₈₉₅₈₅₁₉
275°F, 1000 hr	-8.0	%	という
100% Strain 275°F, 1000 hr	10.	级技师	级分别(
302°F, 168 hr	1440	% 爱佩斯	1-58950
100% Strain 302°F, 168 hr	一场松单别。E.S.O.	持秦 电话:	
Change in Ultimate Elongation in Air - Across Flow	OR APpsico	m	ASTM D573
Change in Oilinate Liongation in Air - Across riow	La Company		
275°F, 1000 hr	-8.0 10. 10. TEKNOR APE & BE TEKNOR APE & BE teknorapex.shahej.co	%	

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Nominal Value	Unit	Test Method
		ISO 188
-13	%	
-14	%	
		ASTM D573
-1.0		
3.0		
		ISO 188
-1.0		
3.0		
120	%	ASTM D471
120	%	ISO 1817
Nominal Value	Unit	Test Method
НВ		UL 94
Nominal Value	Unit	Test Method
290	Pa·s	ISO 11443
290	Pa·s	ASTM D3835
	-13 -14 -1.0 3.0 -1.0 3.0 120 120 Nominal Value HB Nominal Value	3.0 -1.0 3.0 120 % 120 % Nominal Value Unit

Legal Statement

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	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	hr F 有限公司
Cylinder Zone 2 Temp.	356 to 401	第 1
Cylinder Zone 3 Temp.	369 to 410.	02个
Cylinder Zone 4 Temp.	369,16-410	m° Extended
Melt Temperature	TEKNO 383 16 419	hr F
Die Temperature	teknorah 383 to 419	°F
Take-Off Roll	68 to 122	°F

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Extrusion Notes

Screen Pack: 20 to 60 mesh Screw: general purpose Compression Ratio: 3:1

Notes

¹ Typical properties: these are not to be construed as specifications.

² Method Ba, Angle (Unnicked)

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