

Sarlink® TPV 3135

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® 3135, available in NAT and BLK, is a low 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 EastAsia Pacific	EuropeLatin America	North America
Features	BondabilityChemical ResistantGeneral PurposeGood AdhesionGood Flexibility	Good MoldabilityGood ProcessabilityGood Surface FinishHigh ElasticityHigh Heat Resistance	High Melt StabilityLow DensityLow HardnessLow Specific GravityResilient
Uses	 Appliance Components Automotive Applications Automotive Exterior Parts Automotive Interior Parts Automotive Under the Hood Blow Molding Applications 	GasketsGeneral PurposeHandlesIndustrial ApplicationsO-ringsPipe Seals	PlugsProfilesRubber ReplacementSeals
Agency Ratings	• UL 94		
RoHS Compliance	 RoHS Compliant 		
Appearance	• Black	Natural Color	 Opaque
Forms	• Pellets		
Processing Method	 Extrusion 	Injection Molding	

	ASTM & ISO Properties ¹		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.932		ASTM D792
Density	0.930	g/cm³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			
Across Flow: 100% Strain	160	psi	ASTM D412
Across Flow: 100% Strain	160	psi	ISO 37
Flow: 100% Strain	305	psi	ASTM D412
Flow: 100% Strain	305	psi	ISO 37
Tensile Stress			
Across Flow : Break	580	psi	ASTM D412
Across Flow : Break	580	psi	ISO 37
Flow : Break	319	psi	ASTM D412
Flow: Break	319	psi	ISO 37 ASTM D412
Tensile Elongation	11/2	科技工作	-级578519
Across Flow : Break	1000	%尔爱师和021	ASTM D412
Across Flow : Break	LA TUPNOE 800	以 教系电阻	ISO 37
Flow: Break	KNOR shahado	%	ISO 37
Flow : Break	319 319 200 TEKNOR APEGOO TEKNOR APEGOO TEKNOR Shan 200 teknorapex. Shan 200	%	ASTM D412

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Elastomers	Nominal Value	Unit	Test Method
Tear Strength - Across Flow			
	86	lbf/in	ASTM D624
2	86	lbf/in	ISO 34-1
Compression Set			
73°F, 22 hr	15	%	ASTM D395
73°F, 22 hr	15	%	ISO 815
158°F, 22 hr	30	%	ASTM D395
158°F, 22 hr	30	%	ISO 815
257°F, 70 hr	52	%	ASTM D395
257°F, 70 hr	52	%	ISO 815
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			
Shore A, 5 sec, Extruded	38		ASTM D2240
Shore A, 5 sec, Extruded	38		ISO 868
Shore A, 5 sec, Injection Molded	43		ASTM D2240
Shore A, 5 sec, Injection Molded	43		ISO 868
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			
275°F, 1000 hr	0.0	%	ASTM D573
275°F, 1000 hr	0.0	%	ISO 188
100% Strain 275°F, 1000 hr	4.0	%	ASTM D573
100% Strain 275°F, 1000 hr	4.0	%	ISO 188
302°F, 168 hr	4.0	%	ASTM D573
302°F, 168 hr	4.0	%	ISO 188
100% Strain 302°F, 168 hr	11	%	ASTM D573
100% Strain 302°F, 168 hr	11	%	ISO 188
Change in Tensile Strain at Break in Air - Across Flow			
275°F, 1000 hr	-2.0	%	ASTM D573
275°F, 1000 hr	-2.0	%	ISO 188
302°F, 168 hr	1.0	%	ISO 188
302°F, 168 hr	1.0	%	ASTM D573
Change in Shore Hardness in Air			
Shore A, 275°F, 1000 hr	-1.0		ASTM D573
Shore A, 275°F, 1000 hr	-1.0		ISO 188
Shore A, 302°F, 168 hr	1.0		ISO 188
Shore A, 302°F, 168 hr	1.0		ASTM D573
Change in Volume		1	限公益
257°F, 70 hr, in IRM 903 Oil	150	战技不	级分制ASTM D471
257°F, 70 hr, in IRM 903 Oil	#24月160	%展開	ISO 188 ASTM D573 ASTM D471 ISO 1817 Test Method
Flammability			Test Method
Flame Rating (0.06 in, All Colors)	LIOR APHSHB	M.	UL 94
Additional Information	TEX Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s	tekn		
392°F	270	Pa·s	ASTM D3835
392°F	270	Pa·s	ISO 11443
			Revision Date: 6/1/20

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.

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·	Processing Information	
Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0	hr
Rear Temperature	350 to 420	°F
Middle Temperature	350 to 420	°F
Front Temperature	350 to 420	°F
Nozzle Temperature	370 to 430	°F
Processing (Melt) Temp	360 to 430	°F
Mold Temperature	50 to 150	°F
Back Pressure	10.0 to 50.0	psi
Screw Speed	100 to 200	rpm
Screw L/D Ratio	20.0:1.0	
Extrusion	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	360 to 400	°F
Cylinder Zone 2 Temp.	360 to 400	°F
Cylinder Zone 3 Temp.	370 to 410	°F
Cylinder Zone 4 Temp.	370 to 410	°F
Melt Temperature	380 to 420	°F
Die Temperature	380 to 420	°F
Take-Off Roll	70 to 120	°F

Extrusion Notes

Screen Pack: 20 to 60 Mesh Screw: General Purpose Compression Ratio: 3:1

Notes

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

Teknor Apex Company Corporate Headquarters

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² Method Ba, Angle (Unnicked)