😰 TEKNOR APEX

Sarlink® TPV 3180

Teknor Apex Company - Thermoplastic Vulcanizate

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® 3180, 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	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	Chemical ResistantGeneral PurposeGood AdhesionGood Flexibility	Good MoldabilityGood ProcessabilityGood Surface FinishHeat Aging Resistant	Medium HardnessResilientWeather Resistant
Uses	 Agricultural Applications Appliance Components Automotive Applications Automotive Exterior Parts Automotive Interior Parts 	 Automotive Under the Hood Blow Molding Applications General Purpose Industrial Applications Profiles 	Rubber ReplacementSealsWeatherstripping
Agency Ratings	• UL 94		
RoHS Compliance	 RoHS Compliant 		
Automotive Specifications	 CHRYSLER MS-AR-80 Type D Color: Black CHRYSLER MS-AR-80 Type D Color: Natural DAIMLER DBL 5562.30 Color: Black FORD WSD-M2D381-A1 Color Black 	 GM QK 3525 Type 5 Color: Natural SAE J3000 Color: Black 	 VAG VW501 79 Color: Black VAG VW-TL 526 22 Color: Black VOLKSWAGEN VW 50180 Color: Black
Appearance	Black	Natural Color	Opaque
Forms	Pellets		
Processing Method	Blow Molding	Extrusion	Injection Molding

ASTM & ISO Properties ¹			
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			ASTM D412
Across Flow : 100% Strain	653	psi	
Flow : 100% Strain	972	psi	
Tensile Stress			入司VSO 37 分開商
Across Flow : 100% Strain	653	psi	
Flow : 100% Strain	972	psitz	3分销版 \
Tensile Strength	拉塑化	中你爱佩斯 021-5	ASTM D412
Across Flow : Break	1360 L360	与 Si系电话:	
Flow : Break	LIGNOR APPH230	psi	
Tensile Stress	653 972 172 1360 1360		ISO 37
Across Flow : Break	tekne 1360	psi	
Flow : Break	1230		

Revision Date: 6/1/2016

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lastomers	Nominal Value	Unit	Test Method
Tensile Elongation			ASTM D412
Across Flow : Break	690	%	
Flow : Break	330	%	
Tensile Elongation			ISO 37
Across Flow : Break	690	%	
Flow : Break	330	%	
Tear Strength - Across Flow	290	lbf/in	ASTM D624
Tear Strength - Across Flow ²	290	lbf/in	ISO 34-1
Compression Set			ASTM D395
73°F, 22 hr	32	%	
158°F, 22 hr	50	%	
257°F, 70 hr	65	%	
Compression Set			ISO 815
73°F, 22 hr	32	%	
158°F, 22 hr	50		
257°F, 70 hr	65		
lardness	Nominal Value		Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	80		, (S THI D2240
Shore A, 5 sec, Injection Molded	84		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	80		100 000
	80		
Shore A, 5 sec, Injection Molded		Unit	T
hermal	Nominal Value		Test Method
RTI Elec	122		UL 746
RTI Imp	122		UL 746
RTI Str	122		UL 746
ging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ASTM D573
275°F, 1000 hr	-9.0		
100% Strain, 275°F, 1000 hr	17		
302°F, 168 hr	-8.0		
100% Strain, 302°F, 168 hr	9.0	%	
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1000 hr	-9.0	%	
100% Strain 275°F, 1000 hr	17		
302°F, 168 hr	-8.0	%	
100% Strain 302°F, 168 hr	9.0	%	
Change in Ultimate Elongation in Air - Across Flow			ASTM D573
275°F, 1000 hr	-15	%	
302°F, 168 hr	-16	%	
Change in Tensile Strain at Break in Air - Across Flow	-15 -16 -16 -16 -16 -16 -16 -16 -16 -16 -16	目技有	155 HE ISO 188
275°F, 1000 hr	10世145	% 爱佩斯	21-58950
302°F, 168 hr	· · · · · · · · · · · · · · · · · · ·	"秋东电话"	
	APE 100	m w	ASTM D573
Change in Durometer Hardness in Air	NOR "hehsi"		
Change in Durometer Hardness in Air Shore A, 275°F, 1000 hr	-15 -16 -16 -16 -16 -16 -16 -16 -16 -16 -16		

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Nominal Value	Unit	Test Method
		ISO 188
0.0		
2.0		
95	%	ASTM D471
95	%	ISO 1817
Nominal Value	Unit	Test Method
HB		UL 94
Nominal Value	Unit	Test Method
290	Pa∙s	ASTM D3835
290	Pais	ISO 11443
	0.0 2.0 95 95 Nominal Value HB Nominal Value 290	2.0 95 % 95 % 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	°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 月公司	
Take-Off Roll	68 to 122	FHAME	
Extrusion Notes	LAXX	H15 58958519	
Screen Pack: 20 to 60 mesh		描尔是"021	
Screw: general purpose	L'AMATAPEXT	m HR	
Compression Ratio: 3:1	TEKNOR TEKNOR teknorapex.shsh51.00	°F °F F F F F F F F F F F	

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Notes

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

² Method Ba, Angle (Unnicked)

Teknor Apex Company Corporate Headquarters

Teknor Apex U.K. Ltd.

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

info@teknorapex.com

Tat Bank Road Oldbury, West Midlands B69 4NH England

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

etpsales@teknorapex.co.uk

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