

Sarlink® TPV 3145D

Teknor Apex Company - Thermoplastic Vulcanizate

Thursday, June 29, 2017

General Information

Product Description

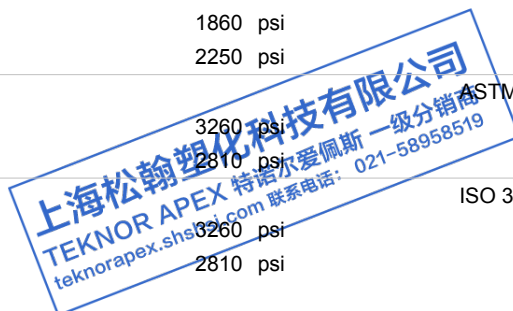
SARLINK® TPV 3145D is a general purpose thermoplastic vulcanizate featuring excellent flex fatigue resistance, heat aging and resilience. SARLINK® 3145D is a high hardness, low density grade offered in Nat and Black for use in injection molded parts, sheet and profile extrusions such as weather-stripping and can also be blow molded into boots and ducts.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Fatigue Resistant • General Purpose • 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 • Rubber Replacement • Weatherstripping
Agency Ratings	• UL 94		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	<ul style="list-style-type: none"> • FORD WSK-M4D712-A1 Color: Black • FORD WSK-M4D712-A1 Color: Natural • GM QK 3533 Type 3 Color: Black • GM QK 3533 Type 3 Color: Black • PSA Peugeot-Citroën B62 0300 version G Color: Black • VOLVO STD 412-0001 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	0.940		ASTM D792
Density	0.940	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	1860	psi	
Flow : 100% Strain	2250	psi	
Tensile Stress			ISO 37
Across Flow : 100% Strain	1860	psi	
Flow : 100% Strain	2250	psi	
Tensile Strength			ASTM D412
Across Flow : Break	3260	psi	
Flow : Break	2810	psi	
Tensile Stress			ISO 37
Across Flow : Break	3260	psi	
Flow : Break	2810	psi	



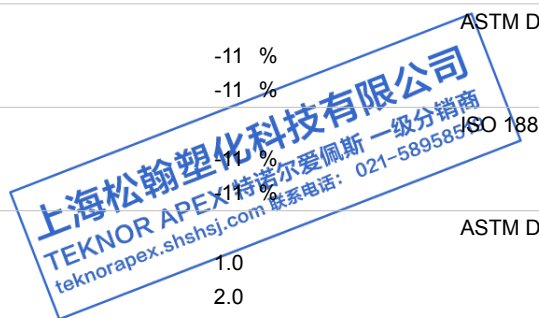
Revision Date: 1/10/2017

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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	750	lbf/in	ASTM D624
Tear Strength - Across Flow ²	750	lbf/in	ISO 34-1
Compression Set			ASTM D395
73°F, 22 hr	57	%	
158°F, 22 hr	70	%	
257°F, 70 hr	90	%	
Compression Set			ISO 815
73°F, 22 hr	57	%	
158°F, 22 hr	70	%	
257°F, 70 hr	90	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D, 5 sec, Extruded	47		
Shore D, 5 sec, Injection Molded	50		
Shore Hardness			ISO 868
Shore D, 5 sec, Extruded	47		
Shore D, 5 sec, Injection Molded	50		
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	2.0	%	
100% Strain, 275°F, 1000 hr	16	%	
302°F, 168 hr	-5.0	%	
100% Strain, 302°F, 168 hr	8.0	%	
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1000 hr	2.0	%	
100% Strain 275°F, 1000 hr	16	%	
302°F, 168 hr	-5.0	%	
100% Strain 302°F, 168 hr	8.0	%	
Change in Ultimate Elongation in Air - Across Flow			ASTM D573
275°F, 1000 hr	-11	%	
302°F, 168 hr	-11	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
275°F, 1000 hr	17	%	
302°F, 168 hr	17	%	
Change in Durometer Hardness in Air			ASTM D573
Shore D, 275°F, 1000 hr	1.0		
Shore D, 302°F, 168 hr	2.0		



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Aging	Nominal Value	Unit	Test Method
Change in Shore Hardness in Air			ISO 188
Shore D, 275°F, 1000 hr	1.0		
Shore D, 302°F, 168 hr	2.0		
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	52	%	ASTM D471
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	52	%	ISO 1817
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in, Natural and Black 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

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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
Take-Off Roll	68 to 122	°F
Extrusion Notes		
Screen Pack: 20 to 60 mesh		
Screw: general purpose		
Compression Ratio: 3:1		

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Notes

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

² Method Ba, Angle (Unnicked)

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