

# Sarlink® TPV 4775B42

Teknor Apex Company - Thermoplastic Vulcanizate

Thursday, June 29, 2017

## General Information

### Product Description

The Sarlink TPV 4700 Series are very high flow injection molding engineering grades with excellent UV resistance, elasticity, and surface aesthetics designed for demanding automotive applications including window encapsulation and exterior parts. Sarlink® TPV 4775B42 is a black, medium hardness, low density thermoplastic vulcanizate suited for injection molding applications that require superior flow properties.

### General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> <li>• Africa &amp; Middle East</li> <li>• Asia Pacific</li> <li>• Europe</li> <li>• Latin America</li> <li>• North America</li> </ul>
Features	<ul style="list-style-type: none"> <li>• Chemical Resistant</li> <li>• Good Flexibility</li> <li>• Good Processability</li> <li>• High Flow</li> <li>• Low Density</li> <li>• Low Specific Gravity</li> <li>• Medium Hardness</li> <li>• Resilient</li> <li>• UV Resistant</li> <li>• Weather Resistant</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Automotive Applications</li> <li>• Automotive Exterior Parts</li> <li>• Automotive Window Encapsulation</li> <li>• Rubber Replacement</li> </ul>
RoHS Compliance	• RoHS Compliant
Automotive Specifications	<ul style="list-style-type: none"> <li>• BMW Unspecified Color: Black</li> <li>• DAIMLER DBL 5422 Color: Black</li> <li>• DAIMLER DBL 5562.30 Color: Black</li> <li>• FORD WSS-M9P-10A Color: Black</li> <li>• GM QK 3523 L Color: Black</li> <li>• HONDA 73512-T6L Color: Black</li> <li>• PSA Peugeot-Citroën B62 0300 version G Color: Black</li> <li>• RENAULT 32 06 41 D Color: Black</li> <li>• TOYOTA TSM 1707G-7 Color: Black</li> <li>• VAG VW501 23 Color: Black</li> <li>• VAG VW-TL 52381-C Color: Black</li> <li>• VOLKSWAGEN VW 50180 Color: Black</li> </ul>
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.910		ASTM D792
Density	0.910	g/cm <sup>3</sup>	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	464	psi	
Flow : 100% Strain	493	psi	
Tensile Stress			ISO 37
Across Flow : 100% Strain	464	psi	
Flow : 100% Strain	493	psi	
Tensile Strength			ASTM D412
Across Flow : Break	914	psi	
Flow : Break	841	psi	
Tensile Stress			ISO 37
Across Flow : Break	914	psi	
Flow : Break	841	psi	

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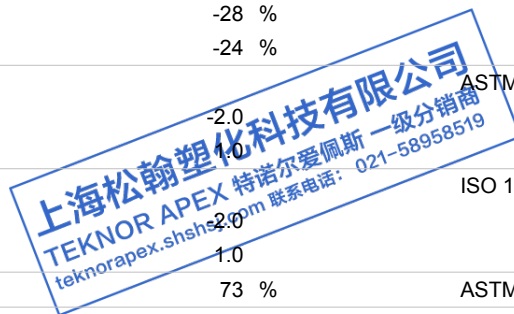
Revision Date: 6/1/2016

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Elastomers	Nominal Value	Unit	Test Method
Tensile Elongation			ASTM D412
Across Flow : Break	470	%	
Flow : Break	410	%	
Tensile Elongation			ISO 37
Across Flow : Break	470	%	
Flow : Break	410	%	
Tear Strength - Across Flow	180	lbf/in	ASTM D624
Tear Strength - Across Flow <sup>2</sup>	180	lbf/in	ISO 34-1
Compression Set			ASTM D395
73°F, 22 hr	24	%	
158°F, 22 hr	39	%	
257°F, 70 hr	56	%	
Compression Set			ISO 815
73°F, 22 hr	24	%	
158°F, 22 hr	39	%	
257°F, 70 hr	56	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	74		
Shore A, 5 sec, Injection Molded	76		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	74		
Shore A, 5 sec, Injection Molded	76		
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ASTM D573
275°F, 1000 hr	-18	%	
100% Strain, 275°F, 1000 hr	3.0	%	
302°F, 168 hr	-19	%	
100% Strain, 302°F, 168 hr	2.0	%	
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1000 hr	-18	%	
100% Strain 275°F, 1000 hr	3.0	%	
302°F, 168 hr	-19	%	
100% Strain 302°F, 168 hr	2.0	%	
Change in Ultimate Elongation in Air - Across Flow			ASTM D573
275°F, 1000 hr	-28	%	
302°F, 168 hr	-24	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
275°F, 1000 hr	-28	%	
302°F, 168 hr	-24	%	
Change in Durometer Hardness in Air			ASTM D573
Shore A, 275°F, 1000 hr	-2.0		
Shore A, 302°F, 168 hr	-1.0		
Change in Shore Hardness in Air			ISO 188
Shore A, 275°F, 1000 hr	-2.0		
Shore A, 302°F, 168 hr	-1.0		
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	73	%	ASTM D471
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	73	%	ISO 1817



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Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			
392°F	200		ISO 11443
392°F	200	Pa·s	ASTM D3835

### Legal Statement

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### Processing Information

Injection	Nominal Value	Unit
Rear Temperature	356 to 401	°F
Middle Temperature	356 to 401	°F
Front Temperature	356 to 401	°F
Nozzle Temperature	365 to 410	°F
Processing (Melt) Temp	365 to 410	°F
Mold Temperature	50 to 131	°F
Back Pressure	14.5 to 145	psi
Screw Speed	100 to 200	rpm

### Extrusion Notes

Spiral Flow Ratio, DSM Method: 3

### 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

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