

# Sarlink® TPV 5725B

Teknor Apex Company - Thermoplastic Vulcanizate

Saturday, September 14, 2024

## General Information

### Product Description

The Sarlink TPV 5700B series are highly engineered extrusion-grade thermoplastic vulcanizates with outstanding UV stability designed for demanding automotive interior and exterior sealing applications, including glass run channels, waistbelts, weather strips, seals and other profiles. Sarlink TPV 5725B is a low hardness, low density, high performance grade with low fogging and excellent color retention and elastic properties.

### General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Chemical Resistant • Good Processability • Low Density	• Low Hardness • Low Specific Gravity • Resilient	• UV Resistant
Uses	• Automotive Applications	• Automotive Exterior Parts	• Rubber Replacement
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Opaque	

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.928	g/cm <sup>3</sup>	ASTM D792
Density	0.930	g/cm <sup>3</sup>	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	0.500	MPa	
Flow : 100% Strain	1.10	MPa	
Tensile Stress			ISO 37
Across Flow : 100% Strain	0.500	MPa	
Flow : 100% Strain	1.10	MPa	
Tensile Strength			ASTM D412
Across Flow : Break	2.50	MPa	
Flow : Break	1.50	MPa	
Tensile Stress			ISO 37
Across Flow : Break	2.50	MPa	
Flow : Break	1.50	MPa	
Tensile Elongation			ASTM D412
Across Flow : Break	510	%	
Flow : Break	200	%	
Tensile Elongation			ISO 37
Across Flow : Break	510	%	
Flow : Break	200	%	
Tear Strength - Across Flow	8.93	kN/m	ASTM D624
Tear Strength - Across Flow <sup>2</sup>	9.00	kN/m	ISO 34-1
Compression Set			ASTM D395
23°C, 22 hr	10	%	
70°C, 22 hr	20	%	
125°C, 70 hr	51	%	

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<b>Elastomers</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Compression Set			ISO 815
23°C, 22 hr	10	%	
70°C, 22 hr	20	%	
125°C, 70 hr	51	%	
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	23		
Shore A, 5 sec, Injection Molded	26		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	23		
Shore A, 5 sec, Injection Molded	26		
<b>Aging</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Change in Tensile Strength in Air - Across Flow			ASTM D573
135°C, 1000 hr	-4.0	%	
100% Strain, 135°C, 1000 hr	-7.0	%	
150°C, 168 hr	-4.0	%	
100% Strain, 150°C, 168 hr	-7.0	%	
Change in Tensile Strength in Air - Across Flow			ISO 188
135°C, 1000 hr	-4.0	%	
100% Strain 135°C, 1000 hr	-7.0	%	
150°C, 168 hr	-4.0	%	
100% Strain 150°C, 168 hr	-7.0	%	
Change in Ultimate Elongation in Air - Across Flow			ASTM D573
135°C, 1000 hr	-24	%	
150°C, 168 hr	-18	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
135°C, 1000 hr	-24	%	
150°C, 168 hr	-18	%	
Change in Durometer Hardness in Air			ASTM D573
Shore A, 135°C, 1000 hr	-1.0		
Shore A, 150°C, 168 hr	-3.0		
Change in Shore Hardness in Air			ISO 188
Shore A, 135°C, 1000 hr	-1.0		
Shore A, 150°C, 168 hr	-3.0		
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	71	%	ASTM D471
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	71	%	ISO 1817
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Apparent Shear Viscosity - Capillary @ 206/s			
200°C	140	Pa·s	ASTM D3835
200°C	140	Pa·s	ISO 11443

### Legal Statement

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## Teknor Apex Company - Thermoplastic Vulcanizate

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	82	°C
Drying Time	3.0	hr
Rear Temperature	177 to 216	°C
Middle Temperature	177 to 216	°C
Front Temperature	177 to 216	°C
Nozzle Temperature	188 to 221	°C
Processing (Melt) Temp	182 to 221	°C
Mold Temperature	10 to 66	°C
Back Pressure	0.0689 to 1.03	MPa
Screw Speed	100 to 200	rpm
Screw L/D Ratio	20.0:1.0	

  

Extrusion	Nominal Value	Unit
Drying Temperature	82	°C
Cylinder Zone 1 Temp.	182 to 204	°C
Cylinder Zone 2 Temp.	182 to 204	°C
Cylinder Zone 3 Temp.	188 to 210	°C
Cylinder Zone 4 Temp.	188 to 210	°C
Melt Temperature	193	°C
Die Temperature	193 to 216	°C
Take-Off Roll	21	°C

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Method Ba, Angle (Unnicked)

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