

# Sarlink® TPV 6165N

Teknor Apex Company - Thermoplastic Vulcanizate

Saturday, September 14, 2024

## General Information

### Product Description

Sarlink® TPV 6100 series are engineered materials designed for consumer, automotive, and industrial applications requiring superior colorability and elastic performance. Sarlink® TPV 6165N is a medium hardness, low density, multi-purpose thermoplastic vulcanizate that does not require pre-drying and can be processed by injection molding.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Adhesion • Good Colorability • Good Flexibility	• Good Flow • Good Processability • Low Density • Low Specific Gravity	• Medium Hardness • Resilient
Uses	• Automotive Applications • Consumer Applications	• Industrial Applications • Rubber Replacement	• Soft Touch Applications
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• GM QK 003521 Color: Natural	• VAG VW501 23 Color: Natural	• VOLKSWAGEN VW 50180 Color: Natural
Appearance	• Natural Color	• Opaque	
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.910	g/cm <sup>3</sup>	ASTM D792
Density	0.912	g/cm <sup>3</sup>	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	2.20	MPa	
Flow : 100% Strain	3.10	MPa	
Tensile Stress			ISO 37
Across Flow : 100% Strain	2.20	MPa	
Flow : 100% Strain	3.10	MPa	
Tensile Strength			ASTM D412
Across Flow : Break	5.20	MPa	
Flow : Break	4.00	MPa	
Tensile Stress			ISO 37
Across Flow : Break	5.20	MPa	
Flow : Break	4.00	MPa	
Tensile Elongation			ASTM D412
Across Flow : Break	620	%	
Flow : Break	310	%	
Tensile Elongation			ISO 37
Across Flow : Break	620	%	
Flow : Break	310	%	
Tear Strength - Across Flow	24.5	kN/m	ASTM D624
Tear Strength <sup>2</sup>	24.2	kN/m	ISO 34-1

Revision Date: 1/11/2019

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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<b>Elastomers</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Compression Set			ASTM D395
23°C, 22 hr	28	%	
70°C, 22 hr	42	%	
125°C, 70 hr	63	%	
Compression Set			ISO 815
23°C, 22 hr	28	%	
70°C, 22 hr	42	%	
125°C, 70 hr	63	%	
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	61		
Shore A, 5 sec, Injection Molded	65		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	61		
Shore A, 5 sec, Injection Molded	65		
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Apparent Shear Viscosity - Capillary @ 206/s			
200°C	211	Pa·s	ASTM D3835
200°C	211	Pa·s	ISO 11443

### Legal Statement

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### Processing Information

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Rear Temperature	138 to 160	°C
Middle Temperature	166 to 193	°C
Front Temperature	177 to 227	°C
Nozzle Temperature	182 to 227	°C
Processing (Melt) Temp	182 to 227	°C
Mold Temperature	16 to 54	°C
Injection Rate	Fast	
Back Pressure	0.345 to 1.03	MPa
Screw Speed	25 to 75	rpm

### 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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