

# Sarlink® TPV X6180N

Teknor Apex Company - Thermoplastic Vulcanizate

Friday, June 30, 2017

## General Information

### Product Description

Sarlink® TPV X6100 series are engineered materials designed for consumer, automotive, and industrial applications requiring superior colorability and elastic performance. Sarlink® TPV X6180N 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 • Automotive Interior Parts	• Consumer Applications • Industrial Applications	• Rubber Replacement • Soft Touch Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color	• Opaque	
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Nominal Value	Unit	Test Method
Density	0.937	g/cm <sup>3</sup>	ISO 1183
<b>Elastomers</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Stress			ASTM D412
Across Flow : 100% Strain	609	psi	
Flow : 100% Strain	870	psi	
Tensile Stress			ISO 37
Across Flow : 100% Strain	609	psi	
Flow : 100% Strain	870	psi	
Tensile Strength			ASTM D412
Across Flow : Break	1160	psi	
Flow : Break	1060	psi	
Tensile Stress			ISO 37
Across Flow : Break	1160	psi	
Flow : Break	1060	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	650	%	
Flow : Break	390	%	
Tensile Elongation			ISO 37
Across Flow : Break	650	%	
Flow : Break	390	%	
Tear Strength - Across Flow	260	lb/in	ASTM D624
Tear Strength <sup>2</sup>	260	lb/in	ISO 34-1
Compression Set			ASTM D395
73°F, 22 hr	39	%	
158°F, 22 hr	54	%	
257°F, 70 hr	81	%	

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Revision Date: 6/1/2016

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# Sarlink® TPV X6180N

## Teknor Apex Company - Thermoplastic Vulcanizate

Elastomers	Nominal Value	Unit	Test Method
Compression Set			ISO 815
73°F, 22 hr	39	%	
158°F, 22 hr	54	%	
257°F, 70 hr	81	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	80		
Shore A, 5 sec, Injection Molded	84		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	80		
Shore A, 5 sec, Injection Molded	84		
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			
392°F	212	Pa·s	ISO 11443
392°F	212	Pa·s	ASTM D3835

### Legal Statement

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### 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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