



Sarlink® TPV 6165N

Teknor Apex Company - Thermoplastic Vulcanizate

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 ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.912		ASTM D792
Density	0.912	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	319	psi	
Flow : 100% Strain	450	psi	
Tensile Stress			ISO 37
Across Flow : 100% Strain	319	psi	
Flow : 100% Strain	450	psi	
Tensile Strength			ASTM D412
Across Flow : Break	754	psi	
Flow : Break	580	psi	
Tensile Stress			ISO 37
Across Flow : Break	754	psi	
Flow : Break	580	psi	
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	140	lbf/in	ASTM D624
Tear Strength ²	138	lbf/in	ISO 34-1

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Elastomers	Nominal Value	Unit	Test Method
Compression Set			ASTM D395
73°F, 22 hr	28	%	
158°F, 22 hr	42	%	
257°F, 70 hr	63	%	
Compression Set			ISO 815
73°F, 22 hr	28	%	
158°F, 22 hr	42	%	
257°F, 70 hr	63	%	
Hardness	Nominal Value	Unit	Test Method
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		
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			
392°F	211	Pa·s	ASTM D3835
392°F	211	Pa·s	ISO 11443

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	280 to 320	°F
Middle Temperature	330 to 380	°F
Front Temperature	350 to 440	°F
Nozzle Temperature	360 to 440	°F
Processing (Melt) Temp	360 to 440	°F
Mold Temperature	60 to 130	°F
Injection Rate	Fast	
Back Pressure	50.0 to 150	psi
Screw Speed	25 to 75	rpm

Notes

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

² Method Ba, Angle (Unnicked)