

Sarlink® TPV 6145N

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 6145N is a medium hardness, low density, multi-purpose thermoplastic vulcanizate that does not require pre-drying and can be processed by injection molding.

General	
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Material Status	 Commercial: Active 		
Availability	 Africa & Middle East Asia Pacific	 Europe Latin America	North America
Features	Chemical ResistantGood AdhesionGood ColorabilityGood Flexibility	Good FlowGood ProcessabilityLow DensityLow Specific Gravity	Medium Hardness Resilient
Uses	Automotive ApplicationsConsumer 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 1

Density / Specific Gravity 0.888 g/cm³ ASTM D792 Density 0.890 g/cm³ ISO 1183 Elastomers Nominal Value Unit Test Method Ensile Stress ASTM D412 ASTM D412 Across Flow: 100% Strain 1.10 MPa MPa Flow: 100% Strain 1.10 MPa MPa Flow: 100% Strain 1.00 MPa ASTM D412 Across Flow: 100% Strain 1.00 MPa ASTM D412 Flow: 9 Break 3.70 MPa MPa Flow: Break 3.70 MPa SSO 37 Across Flow: Break 3.70 MPa ASTM D412 Flow: Break 3.70 MPa ASTM D412 Across Flow: Break 3.70 MPa ASTM D412 Flow: Break 400 MPa ASTM D412 Across Flow: Break 400 MPa ASTM D412 Flow: Break	Physical	Nominal Value	Unit	Test Method
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Tensile Stress ASTM D412 Across Flow: 100% Strain 1.10 MPa Flow: 100% Strain 1.60 MPa Tensile Stress ISO 37 Across Flow: 100% Strain 1.10 MPa Flow: 100% Strain 1.60 MPa Tensile Strength ASTM D412 Across Flow: Break 3.70 MPa Flow: Break 3.70 MPa Tensile Stress ISO 37 Across Flow: Break 3.70 MPa Flow: Break 3.70 MPa Tensile Elongation ASTM D412 Across Flow: Break 610 % Flow: Break 400 % Tensile Elongation ISO 37 Across Flow: Break 610 %	Density	0.890	g/cm³	ISO 1183
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Tensile Elongation ASTM D412 Across Flow : Break 610 % Flow : Break 400 % Tensile Elongation ISO 37 Across Flow : Break 610 % Flow : Break 400 % Tear Strength - Across Flow 15.8 kN/m ASTM D624	Across Flow: Break	3.70	MPa	
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Flow : Break 400 % Tear Strength - Across Flow 15.8 kN/m ASTM D624	Tensile Elongation			ISO 37
Tear Strength - Across Flow 15.8 kN/m ASTM D624	Across Flow: Break	610	%	
5	Flow: Break	400	%	
Tear Strength ² 15.8 kN/m ISO 34-1	Tear Strength - Across Flow	15.8	kN/m	ASTM D624
	Tear Strength ²	15.8	kN/m	ISO 34-1

Revision Date: 11/27/2019

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Elastomers	Nominal Value	Unit	Test Method
Compression Set			ASTM D395
23°C, 22 hr	24	%	
70°C, 22 hr	33	%	
125°C, 70 hr	49	%	
Compression Set			ISO 815
23°C, 22 hr	24	%	
70°C, 22 hr	33	%	
125°C, 70 hr	49	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	42		
Shore A, 5 sec, Injection Molded	46		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	42		
Shore A, 5 sec, Injection Molded	46		
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			
200°C	225	Pa·s	ASTM D3835
200°C	225	Pa·s	ISO 11443
Legal Statement			

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Processing Information			
Injection	Nominal Value Unit		
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

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

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² Method Ba, Angle (Unnicked)

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