

# Sarlink® TPV X6180N

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

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 Information			
Features	Low Specific Gravity		
	Low density		
	Workability, good		
	Good liquidity		
	Good flexibility		
	Good coloring		
	Good adhesion		
	Good chemical resistance		
	Elastic		
	Medium hardness		
Uses	Industrial application		
	Application in Automobile Field		
	Car interior parts		
	Soft touch application		
	Rubber substitution		
	Consumer goods application field		
RoHS Compliance	RoHS compliance		
Appearance	Opacity		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.937	g/cm³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shaw A, 5 seconds, extruded	80		ASTM D2240, ISO 868
Shore A, 5 seconds, injection molding	84		ASTM D2240, ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412, ISO 37

Transverse flow: 100% strain	4.20	MPa	ASTM D412, ISO 37
Flow: 100% strain	6.00	MPa	ASTM D412, ISO 37
Tensile Strength			ASTM D412, ISO 37
Transverse flow: Fracture	8.00	MPa	ASTM D412, ISO 37
Flow: Fracture	7.30	MPa	ASTM D412, ISO 37
Tensile Elongation			ASTM D412, ISO 37
Transverse flow: Fracture	650	%	ASTM D412, ISO 37
Flow: Fracture	390	%	ASTM D412, ISO 37
Tear Strength			
Transverse flow	45.6	kN/m	ASTM D624
-- 1	46	kN/m	ISO 34-1
Compression Set			ASTM D395, ISO 815
23°C, 22 hr	39	%	ASTM D395, ISO 815
70°C, 22 hr	54	%	ASTM D395, ISO 815
125°C, 70 hr	81	%	ASTM D395, ISO 815
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			
200°C	212	Pa·s	ASTM D3835
200°C	212	Pa·s	ISO 11443

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#### NOTE

- Method B, right-angle specimen (without cut)

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