

TECHNICAL DATA SHEET

Sarlink® 4180

Teknor Apex Co.

TPV

Processing

Injection molding, Profile extrusion, Other extrusion, Blow molding

Special Characteristics

Heat stabilized or stable to heat

Features

Fatigue resistance, Good adhesion, Melt strength

Chemical Resistance

General chemical resistance

Applications

Automotive

Product Text

Product Information

SARLINK TPV 4100 series are engineered materials designed primarily for demanding automotive and industrial applications. Available in both black and natural, SARLINK 4180 is a low density, higher hardness thermoplastic vulcanizate featuring excellent flex fatigue resistance, compression set, heat aging and resilience to be used in injection molded parts, extruded profiles, hose and tubing. It can be blow molded into boots, ducts and other articles.

Property	Value	Unit	Standard
Tensile properties (Cross Flow Direction)			ISO 37
Tensile strength at break	10,2	MPa	
Modulus at 100% elongation	4,5	MPa	
Elongation at break	620	%	
Hot air aging (168h/150°C, Cross Flow Direction)			ISO 188
Change in hardness	2	points	
Change in tensile strength at break	-10	%	
Change in modulus at 100% elongation	5	%	
Change in elongation at break	-15	%	
Hot air aging (1000h/135°C, Cross Flow Direction)			ISO 188
Change in hardness	3	points	
Change in tensile strength at break	-9	%	
Change in modulus at 100% elongation	10	%	
Change in elongation at break	-15	%	
Volume swell (70h/125°C in IRM 903 oil)	64	%	ISO 1817

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Apparent shear viscosity @ 206 1/s, 200°C

340

Pa.s

ISO 11443
Capillary

Mechanical Properties	Value	Unit	Standard
Stress at 100% elongation	6.8	MPa	ISO 37
Strain at break TPE	330	%	ISO 37
Stress at break TPE	9	MPa	ISO 37
Compression set at 23 °C, 24h	26	%	
Compression set at 70 °C, 24h	40	%	ISO 815
Shore A hardness, 15s	83		ISO 7619-1
Other Properties	Value	Unit	Standard
Density	960	kg/m ³	ISO 1183