

TECHNICAL DATA SHEET

Sarlink® 3180

Teknor Apex Co.

TPV

Processing

Injection molding, Profile extrusion, Other extrusion, Blow molding

Special Characteristics

U.V. stabilized or stable to weather

Features

Good adhesion, Thermal stability

Chemical Resistance

General chemical resistance

Applications

Automotive, General purpose

Product Text

Product Information

SARLINK TPV 3100 series are engineered materials designed primarily for general purpose, automotive and industrial applications requiring a good balance of thermal, mechanical, and physical properties. SARLINK 3180, available in NAT and BLK, is a medium hardness, low density, multi-purpose thermoplastic vulcanizate that can be processed by injection molding, blow molding or extrusion for applications such as grips, seals, gaskets, profiles, hose & tubes, bellows, and other articles.

Property	Value	Unit	Standard
Tensile properties (Cross Flow Direction)			ISO 37
Tensile strength at break	9,4	MPa	
Modulus at 100% elongation	4,5	MPa	
Elongation at break	690	%	
Hot air aging (168h/150°C, Cross Flow Direction)			ISO 188
Change in hardness	2	points	
Change in tensile strength at break	-8	%	
Change in modulus at 100% elongation	9	%	
Change in elongation at break	-16	%	
Hot air aging (1000h/135°C, Cross Flow Direction)			ISO 188
Change in hardness	0	points	
Change in tensile strength at break	-9	%	
Change in modulus at 100% elongation	17	%	
Change in elongation at break	-15	%	

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Volume swell (70h/125°C in IRM 903 oil)	95	%	ISO 1817
Apparent shear viscosity @ 206 1/s, 200°C	290	Pa.s	ISO 11443 Capillary

Mechanical Properties	Value	Unit	Standard
Stress at 100% elongation	6.7	MPa	ISO 37
Strain at break TPE	330	%	ISO 37
Stress at break TPE	8.5	MPa	ISO 37
Compression set at 23 °C, 24h	32	%	
Compression set at 70 °C, 24h	50	%	ISO 815
Shore A hardness, 15s	84		ISO 7619-1

Other Properties	Value	Unit	Standard
Density	950	kg/m ³	ISO 1183