


Sarlink® 4180 - Shore 83 A

TPV

Teknor Apex Co.

Product Texts

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
Apparent shear viscosity @ 206 1/s, 200°C	340	Pa.s	ISO 11443 Capillary

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Compression Set under constant strain, 23°C	26	%	ISO 815
Compression Set under constant strain, 70°C	40	%	ISO 815
Shore A hardness, 3s	83	-	ISO 7619-1
Other Standards^[S]			
Stress at 100% elongation	6.8	MPa	ISO 37
Strain at break TPE	330	%	ISO 37
Stress at break TPE	9	MPa	ISO 37

S: These properties are reported by the producer according standards that are different to our defaults.

Other properties	Value	Unit	Test Standard
ISO Data			
Density	960	kg/m ³	ISO 1183

Characteristics
Processing

Injection Molding, Profile Extrusion, Other Extrusion, Blow Molding

Chemical Resistance

General Chemical Resistance

Special Characteristics

Heat stabilized or stable to heat

Applications

Automotive

Features

Fatigue Resistance, Good Adhesion, Melt Strength