TECHNICAL DATA SHEET

Sarlink® 4139D

Teknor Apex Co.

TPV

Processing

Injection molding, Profile extrusion, Other extrusion, Blow molding

Features

Fatigue resistance, Good adhesion

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 4139D is a low density, high hardness thermoplastic vulcanizate that exhibits exceptional tensile strength, superior compression set, chemical resistance and high temperature performance. This grade can be processed by injection molding, blow molding and extrusion for applications such as seals, gaskets, chemical resistant hose and tube, boots and bellows.

Property	Value	Unit	Standard
Tensile properties (Cross Flow Direction)			ISO 37
Tensile strength at break	19	MPa	
Modulus at 100% elongation	8,9	MPa	
Elongation at break	700	%	
Hot air aging (168h/150°C, Cross Flow Direction)			ISO 188
Change in hardness	2	points	
Change in tensile strength at break	-15	%	
Change in modulus at 100% elongation	15	%	
Change in elongation at break	-20	%	
Hot air aging (1000h/135°C, Cross Flow Direction)			ISO 188
Change in hardness	2	points	
Change in tensile strength at break	-15	%	
Change in modulus at 100% elongation	20	%	
Change in elongation at break	-20	%	
Volume swell (70h/125°C in IRM 903 oil)	47	%	ISO 1817

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Apparent shear viscosity @ 206 1/s, 200°C	370	Pa.s	ISO 11443 Capillary

Mechanical Properties	Value	Unit	Standard
Shore D hardness	40		ISO 7619-1
Stress at 100% elongation	13.3	MPa	ISO 37
Strain at break TPE	420	%	ISO 37
Stress at break TPE	18	MPa	ISO 37
Compression set at 23 °C, 24h	46	%	
Compression set at 70 °C, 24h	56	%	ISO 815

Other Properties	Value	Unit	Standard
Density	950	kg/m³	ISO 1183