TECHNICAL DATA SHEET

Sarlink® 4165

Teknor Apex Co.

TPV

Processing

Injection molding, Pipe/tube 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 4165 is a low density, medium hardness thermoplastic vulcanizate that exhibits excellent compression set, flex fatigue, high and low temperature performance. The material 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	6,8	MPa	
Modulus at 100% elongation	2,5	MPa	
Elongation at break	570	%	
Hot air aging (168h/150°C, Cross Flow Direction)			ISO 188
Change in hardness	2	points	
Change in tensile strength at break	-11	%	
Change in modulus at 100% elongation	0	%	
Change in elongation at break	-11	%	
Hot air aging (1000h/135°C, Cross Flow Direction)			ISO 188
Change in hardness	2	points	
Change in tensile strength at break	-9	%	
Change in modulus at 100% elongation	4	%	
Change in elongation at break	-8	%	
Volume swell (70h/125°C in IRM 903 oil)	83	%	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	4.2	MPa	ISO 37
Strain at break TPE	280	%	ISO 37
Stress at break TPE	5.8	MPa	ISO 37
Compression set at 23 °C, 24h	17	%	
Compression set at 70 °C, 24h	27	%	ISO 815
Shore A hardness, 15s	65		ISO 7619-1

Other Properties	Value	Unit	Standard
Density	960	kg/m³	ISO 1183