

Product Data Sheet

Sarlink® 4180

Typical properties*	Test method	S.I.		U.S.	
		Typical value	Units	Typical value	Units
Density	ISO 1183	960	kg/m ³	960	kg/m ³
Hardness Shore (5 sec delay)	ISO 868	79A		79A	
Extruded sample		83A		83A	
Injection molded sample					
Tensile Properties	ISO 37				
<u>Flow direction</u>					
Tensile strength at break		9.0	MPa	1305	Psi
Modulus at 100% elongation		6.8	MPa	986	Psi
Elongation at break		330	%	330	%
<u>Cross direction</u>					
Tensile strength at break		10.2	MPa	1479	Psi
Modulus at 100% elongation		4.5	MPa	653	Psi
Elongation at break		620	%	620	%
Tear Strength	ISO 34B				
<u>Cross direction</u>					
Unnicked angle		48	kN/m	274	Pli
Compression set	ISO 815				
22h/23°C		26	%	26	%
22h/70°C		40	%	40	%
70h/125°C		58	%	58	%
Hot air aging	ISO 188				
<u>168h/150°C, Cross Direction</u>					
Change in hardness		2	points	2	points
Retention tensile strength at break		90	%	90	%
Retention modulus at 100% elongation		105	%	105	%
Retention elongation at break		85	%	85	%
<u>1000h/135°C, Cross Direction</u>					
Change in hardness		3	points	3	points
Retention tensile strength at break		91	%	91	%
Retention modulus at 100% elongation		110	%	110	%
Retention elongation at break		85	%	85	%
Volume swell	ISO 1817				
70h/125°C in IRM 903 oil		64	%	64	%
Rheology	ISO 11443				
<u>Apparent Shear Viscosity</u>					
@ 206 1/s, 200°C	Capillary	340	Pa.s	340	Pa.s

* Tests are conducted on injection-molded plaques unless indicated otherwise.

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