

Product Data Sheet

Sarlink® 3180

Typical properties*	Test method	S.I.		U.S.	
		Typical value	Units	Typical value	Units
Density	ISO 1183	950	kg/m ³	950	kg/m ³
Hardness Shore (5 sec delay)	ISO 868	80A		80A	
Extruded sample		84A		84A	
Injection molded sample					
Tensile Properties	ISO 37				
<u>Flow direction</u>					
Tensile strength at break		8.5	MPa	1233	Psi
Modulus at 100% elongation		6.7	MPa	972	Psi
Elongation at break		330	%	330	%
<u>Cross direction</u>					
Tensile strength at break		9.4	MPa	1363	Psi
Modulus at 100% elongation		4.5	MPa	653	Psi
Elongation at break		690	%	690	%
Tear Strength	ISO 34B				
<u>Cross direction</u>					
Unnicked angle		51	kN/m	291	Pli
Compression set	ISO 815				
22h/23°C		32	%	32	%
22h/70°C		50	%	50	%
70h/125°C		65	%	65	%
Hot air aging	ISO 188				
<u>168h/150°C, Cross Direction</u>					
Change in hardness		2	points	2	points
Retention tensile strength at break		92	%	92	%
Retention modulus at 100% elongation		109	%	109	%
Retention elongation at break		84	%	84	%
<u>1000h/135°C, Cross Direction</u>					
Change in hardness		0	points	0	points
Retention tensile strength at break		91	%	91	%
Retention modulus at 100% elongation		117	%	117	%
Retention elongation at break		85	%	85	%
Volume swell	ISO 1817				
70h/125°C in IRM 903 oil		95	%	95	%
Rheology	ISO 11443				
<u>Apparent Shear Viscosity</u>					
@ 206 1/s, 200°C	Capillary	290	Pa.s	290	Pa.s

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

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