

SARLINK® 4175 is a highly engineered Thermoplastic Elastomer for use in demanding applications. SARLINK® 4175 is a medium hardness grade possessing exceptional tensile strength, superior compression set, chemical resistance and high temperature performance. It can be easily processed by injection molding, blow molding or extrusion for various applications such as boots and bellows, seals, gaskets as well as other profiles and articles.

Typical properties*	Test method	S.I.		U.S.	
		Typical value	Units	Typical value	Units
<b>Hardness Shore A</b> (5 sec) Injection molded sample Extruded sample	ASTM D-2240, 5 sec. Delay 5 sec. Delay	75	--	75	--
		72	--	72	--
<b>Specific Gravity</b>	ASTM D-792	0.96	--	0.96	--
<b>Stress/Strain properties</b> <u>Flow direction</u> Tensile strength Modulus at 100% Elongation at break <u>Cross direction</u> Tensile strength Modulus at 100% Elongation at break	ASTM D-412, Die C	5.9	MPa	856	Psi
		3.9	MPa	566	Psi
		342	%	342	%
		8.1	MPa	1175	Psi
		3.4	MPa	493	Psi
		527	%	527	%
<b>Tear Strength</b> <u>Cross direction</u> Unnicked	ASTM D-624, Die C	39	kN/m	29	Pli
<b>Compression set</b> 22h/23°C 22h/70°C 70h/125°C	ASTM D-395, Method B	22	%	22	%
		30	%	30	%
		45	%	45	%
<b>Hot air aging</b> <u>168h/150°C, Cross Direction</u> Change in hardness Retention tensile strength Retention modulus at 100% Retention elongation at break <u>1000h/135°C, Cross Direction</u> Change in hardness Retention tensile strength Retention modulus at 100% Retention elongation at break	ASTM D-573	2.8	--	2.8	--
		91	%	91	%
		103	%	103	%
		84	%	84	%
		2.0	--	2.0	--
		98	%	98	%
		105	%	105	%
		95	%	95	%
		<b>Volume swell</b> 70h/125°C Oil #3	ASTM D-471	80	%
<b>Rheology</b> <u>Apparent Shear Viscosity</u> @ 206 1/s, 200°C	ASTM D-3835	356	Pa.s	356	Pa.s

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