

SARLINK® 3145D is a high hardness, multi-purpose thermoplastic elastomer featuring excellent compression set and high temperature performance. SARLINK® 3145D can be processed by injection blow molding, molding or extrusion for applications such as grips, seals, gaskets, profiles and other articles.

Typical properties *	Test method	S.I.		U.S.	
		Typical value	Units	Typical value	Units
Hardness Shore D (5 sec) Injection molded sample Extruded sample	ASTM D-2240, 5 sec. Delay 5 sec. Delay	52	--	52	--
		48	--	48	--
Specific Gravity	ASTM D-792	0.94	--	0.94	--
Stress/Strain properties <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	16.5	MPa	2393	Psi
		13.6	MPa	1972	Psi
		475	%	475	%
		18.0	MPa	2610	Psi
		12.8	MPa	1856	Psi
		602	%	601	%
Tear Strength <u>Cross direction</u> Unnicked	ASTM D-624, Die C	103	kN/m	587	Pli
Compression set 22h/23°C 22h/70°C 22h/100°C	ASTM D-395, Method B	43	%	43	%
		66	%	66	%
		76	%	76	%
Hot air aging <u>168h/150°C, Cross Direction</u> Change in hardness Retention tensile strength Retention modulus at 100% Retention elongation at break <u>1000h/125°C, Cross Direction</u> Change in hardness Retention tensile strength Retention modulus at 100% Retention elongation at break	ASTM D-573	1.7	--	1.7	--
		95	%	95	%
		108	%	108	%
		89	%	89	%
		4.1	--	4.1	--
		91	%	91	%
110	%	110	%		
89	%	89	%		
Volume swell 24h/121°C Oil #3 70h/125°C Oil #3	ASTM D-471	41	%	41	%
		52	%	52	%
Rheology <u>Apparent Shear Viscosity</u> @ 206 1/s, 200 °C	ASTM D-3835	348	Pa.s	348	Pa.s

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