

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 48	-- --	52 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 13.6 475 18.0 12.8 602	MPa MPa % MPa MPa %	2393 1972 475 2610 1856 601	Psi Psi % Psi Psi %
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 66 76	% % %	43 66 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 95 108 89 4.1 91 110 89	-- % % % -- % % %	1.7 95 108 89 4.1 91 110 89	-- % % % -- % % %
Volume swell 24h/121°C Oil #3 70h/125°C Oil #3	ASTM D-471	41 52	% %	41 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.

