Product Data Sheet Sarlink® 3190

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SARLINK® 3190 is a medium hardness, multi-purpose thermoplastic elastomer featuring excellent compression set and high temperature performance. SARLINK® 3190 can be processed by blow molding, injection 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 A (5 sec) Injection molded sample Extruded sample	ASTM D-2240, 5 sec. Delay 5 sec. Delay	93 90	 	93 90	
Specific Gravity	ASTM D-792	0.94		0.94	
Stress/Strain properties Flow direction Tensile strength Modulus at 100% Elongation at break Cross direction Tensile strength Modulus at 100% Elongation at break	ASTM D-412, Die C	11.5 7.9 570 13.5 7.1 746	MPa MPa % MPa MPa %	1668 1146 570 1958 1030 746	Psi Psi % Psi Psi %
Tear Strength Cross direction Unnicked	ASTM D-624, Die C	64	kN/m	365	Pli
Compression set 22h/23°C 22h/70°C 22h/100°C	ASTM D-395, Method B	37 53 62	% % %	37 53 62	% % %
Hot air aging 168h/150°C, Cross Direction Change in hardness Retention tensile strength Retention modulus at 100% Retention elongation at break 1000h/125°C, Cross Direction Change in hardness Retention tensile strength Retention modulus at 100% Retention elongation at break	ASTM D-573	1.9 93 111 81 0.3 95 115 88	 % % % % %	1.9 93 111 81 0.3 95 115 88	 % % % % %
Volume swell 24h/121°C Oil #3 70h/125°C Oil #3	ASTM D-471	60 73	% %	60 73	% %
Rheology Apparent Shear Viscosity @ 206 1/s, 200 °C	ASTM D-3835	320	Pa.s	320	Pa.s

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









Sarlink[®] Technical Library

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SARLINK® 3190 is a polypropylene based elastomer, which can be processed on conventional thermoplastic equipment for injection molding, extrusion and blow molding. This product has a wide processing window in most applications. Melt temperatures from 360°F to 430°F can be used. Do not exceed 450°F. Drying is recommended for extrusion and blow molding and any time the material is used from an unsealed package. Dry three (3) hours at 180°F. Drying is best accomplished in a desiccant dryer.

INJECTION MOULDING CONDITIONS		EXTRUSION CONDITIONS			
Melt temperature		360-430°F	Melt temperature		380-420°F
Barrel Temperatures	Rear Middle Front Nozzle	350-420°F 350-420°F 350-420°F 370-430°F	Barrel Temperatures	Rear Transition Metering Front Die	360-400°F 360-400°F 370-410°F 370-410°F 380-420°F
Mould temperature		50-150°F			
Screw Speed		100-200 RPM	Roll Temperature		70-120°F
Back Pressure		10-150 psi	Screen Pack		20 to 60 mesh
Screw General Purpose 20:1 L/D ratio		Screw General Purpose 3:1 compression ratio			

PURGING

SARLINK[®] 3190 has excellent melt stability. Empty the barrel for idle periods of thirty (30) minutes or longer. Purge thoroughly before and after use of this product with polyethylene or polypropylene.

RECYCLING/REGRIND

This product can be reprocessed. Physical properties are generally not degraded. Dry regrind prior to reprocessing. Drying is best accomplished in a desiccant dryer.

COLORING

The use of polyolefin based color concentrates is recommended. Apply back pressure in injection molding to disperse color.

BONDING/ASSEMBLY

Thermal bonding techniques can be used to form high strength bonds. Adhesive bonding can be achieved with specialized adhesives. Bond strength is limited due to the polypropylene base of this material.

STORAGE & HANDLING

SARLINK[®] 3190 is available in 55 lb. foil lined bags (up to 2,200 lbs. per pallet) or 1,100 lb. polyethylene lined gaylords. It has a storage life at normal temperatures of several years. Please refer to the Material Safety Data Sheet for this grade prior to first time handling.







