

SARLINK® 3175-01 BLK is a multi-purpose thermoplastic elastomer featuring excellent compression set, heat resistance and weatherability. SARLINK® 3175-01 BLK can be processed by injection molding, blow molding or extrusion for applications such as seals, gaskets, chemical resistant hose and tube, heat resistant boots and bellows.

Typical properties *	Test method	Typical value	Units S.I.
Specific gravity	ISO 1183	940	Kg/cm ³
Hardness shore A (5 sec)	ISO 868	81	
Stress/strain properties <u>Cross direction</u> Modulus 100% Tensile strength Elongation at break	ISO 37 (II)	3.6 7.7 720	MPa MPa %
Compression set 22h/70°C	ISO 815	50	%

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

SARLINK® 3175-01 BLK complies with FDA regulation 21 CFR 177.2600 and can therefore be used for food packaging and house ware applications such as seals, dispensing valves, gaskets and profiles.

SARLINK® 3175-01 BLK 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 185°C to 220°C can be used. Do not exceed 260°C. Drying is recommended for extrusion and blow molding (3 hours at 80°C). Drying is best accomplished in a desiccant dryer.

INJECTION MOULDING CONDITIONS			EXTRUSION CONDITIONS		
Melt temperature		185-220°C	Melt temperature		195-215°C
Barrel Temperatures	Rear Middle Front Nozzle	180-215°C 180-215°C 180-215°C 187-220°C	Barrel Temperatures	Rear Transition Metering Front Die	180-200°C 180-205°C 187-210°C 187-210°C 195-215°C
Mould temperature		10-55°C			
Screw Speed		100-200 RPM	Roll Temperature		20-50°C
Back Pressure		0.1-1 MPa	Screen Pack		20 to 60 mesh
Screw	General Purpose		Screw	General Purpose 3:1 compression ratio	



PURGING

SARLINK® 3175-01 BLK has excellent melt stability. Empty the barrel for idle periods of 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.

BONDING/ASSEMBLY

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

STORAGE & HANDLING

SARLINK® 3175-01 BLK is available in 20 kg polyethylene bags (1000 kg per pallet) and in black color only. 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.

