

SARLINK® 3380-02 NAT is a highly engineered thermoplastic elastomer for use in demanding applications. SARLINK® 3380-02 NAT is a non-dioxin suspect flame retardant, medium hardness grade possessing good chemical resistance, compression set and high temperature performance. This product can be processed by injection molding or extrusion. Applications include wire and cable insulation, electrical connectors, seals, gaskets and boots.

Typical properties*	Test method	Typical value	Units S.I.
Specific gravity	ISO 1183	1.24	g/cm ³
Hardness shore A (5 sec)	ISO 868	85	
Stress/strain properties <u>Cross direction</u> Modulus 100% Tensile strength Elongation at break	ISO 37 (II)	3.1 6.5 705	MPa MPa %
Compression set 72h/23°C 22h/70°C	ISO 815	50 61	%
Flammability	UL-94	V-0 (1.2 mm)	

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

SARLINK® 3380-02 NAT 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 180°C to 215°C can be used. Do not exceed 260°C. Drying is recommended for extrusion and blow molding. Any time the material is used from an unsealed package, dry 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	

All information supplied by or on behalf of DSM in relation to its products, whether in nature of data, recommendations or otherwise, is supported by research and believed reliable, but DSM assumes no liability whatsoever in respect of application, processing or use made of the aforementioned information or products, or any consequence thereof. The buyer undertakes all liability in respect of the application, processing or use of the aforementioned information or products, whose quality and other properties he shall verify, or any consequence thereof. No liability whatsoever shall attach to DSM for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or use of the aforementioned information or products by the buyer.

© SARLINK® is a registered trademark of DSM, The Netherlands

PURGING

SARLINK® 3380-02 NAT 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.

COLOURING

The use of polyolefin based color concentrates is recommended. Apply backpressure 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. Adhesive bond strength is limited due to the polypropylene base of this material.

STORAGE & HANDLING

SARLINK® 3380-02 NAT is available in 20 kg polyethylene bags (1000 kg per pallet). 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.