Product Data Sheet
Sarlink® 3160-43 High Flow

SARLINK® 3160-43 is a low hardness, multi-purpose thermoplastic elastomer featuring excellent high flow properties. SARLINK® 3160-43 is available in black or natural and it can be processed by injection molding in applications that require good flow properties (lower viscosity) such as grips, seals, gaskets, profiles as well as 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	 65 62	 -- --	 65 62	 -- --
Specific Gravity	ASTM D-792	0.93	--	0.93	--
Stress/Strain properties Cross direction Tensile strength Modulus at 100% Elongation at break	ASTM D-412, Die C	 6.0 2.6 570	 MPa MPa %	 870 377 570	 Psi Psi %
Tear Strength Cross direction Unnicked	ASTM D-624, Die C	 30	 kN/m	 170	 Pli
Compression set 22h/23°C 22h/70°C	ASTM D-395, Method B	 -- 39	 % %	 -- 39	 % %
Volume swell 24h/121°C Oil #3 70h/125°C Oil #3	ASTM D-471	 105 107	 % %	 105 107	 % %
Rheology Apparent Shear Viscosity @ 206 1/s, 200 °C	ASTM D-3835	 190	 Pa.s	 190	 Pa.s

* Tests are conducted on injection molded plaques unless indicated otherwise. *Rev-03/04*

a DSM Product

Sarlink®

SARLINK® 3160-43 is a polypropylene based elastomer, which can be processed on conventional thermoplastic equipment for injection 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		
Melt temperature		350-450°F
Barrel Temperatures	Rear Middle Front Nozzle	350-420°F 350-420°F 350-420°F 370-430°F
Mould temperature		50-150°F
Screw Speed		100-200 RPM
Back Pressure		10-150 psi
Screw	General Purpose 20:1 L/D ratio	

PURGING
SARLINK® 3160-43 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® 3160-43 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.