

SARLINK® 3790-40 BLK is a high hardness elastomer developed especially for injection molded applications featuring high flow combined with excellent UV-stability. Other features are excellent surface appearance, heat resistance and fluid resistance. Applications include plenums, spoiler extensions and other intricate and high flow demanding applications.

Typical properties *	Test method	Typical value	Units S.I.
Density	ISO 1183	915	Kg/m ³
Hardness shore (5 sec)	ISO 868	94A/33D	
Stress/strain properties <u>Cross direction</u> Modulus 100% Modulus 300% Tensile strength Elongation at break	ISO 37 (II)	6.7 7.7 13.0 670	MPa MPa MPa %
Compression set 22h/70°C	ISO 815	62	%
Hot air aging <u>28 days/125°C</u> Change in hardness Retention tensile strength Retention elongation at break <u>14 days/150°C</u> Change in hardness Retention tensile strength Retention elongation at break	ISO 188	0 85 85 -1 80 81	pts % % pts % %
Volume swell 72h/100°C water 72h/100°C ASTM oil 1 168h/23°C ref. fuel B	ISO 1817	+3 +20 +32	% % %

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

SARLINK® 3790-40 BLK 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 230°C to 260°C can be used. Do not exceed 260°C. Drying is recommended (3 hours at 80°C). Drying is best accomplished in a desiccant dryer.

INJECTION MOULDING CONDITIONS		
Melt temperature		220-260°C
Barrel Temperatures	Rear Middle Front Nozzle	180-200°C 200-240°C 220-260°C 220-260°C
Mould temperature		10-55°C
Screw speed		100-200 rpm
Back pressure		0.5-1 MPa
Screw		general purpose

PURGING

SARLINK® 3790-40 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 (3 hours/80°C). 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® 3790-40 BLK 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.