Product Data Sheet Sarlink® X5775-4 BLK

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SARLINK® X5775-4 BLK is a highly engineered Thermoplastic Elastomer for use in demanding applications. SARLINK® X5775-4 BLK is a UV stable medium hardness grade possessing exceptional tensile strength, superior compression set, chemical resistance and high temperature performance. It can be easily processed by extrusion, injection molding or blow molding for various applications such as glass run channels, waistbelts, weatherstrips, seals and other profiles and articles.

Typical properties	Test method	S.I.		U.S.	
		Typical value	Units	Typical value	e Units
Hardness Shore A (5 sec) Injection molded sample Extruded sample	ASTM D-2240, 5 sec. Delay 5 sec. Delay	75 72	1 1	75 72	
Specific Gravity	ASTM D-792	0.97		0.97	
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	5.8 3.6 390 7.8 3.2 579	MPa MPa % MPa MPa %	841 522 390 1131 464 579	Psi Psi % Psi Psi %
Tear Strength Cross direction Unnicked	ASTM D-624, Die C	40	kN/m	228	Pli
Compression set 22h/23°C 22h/70°C 70h/125°C	ASTM D-395, Method B	23 30 46	% % %	23 30 46	% % %
Hot air aging 168h/150°C, Cross Direction Change in hardness Retention tensile strength Retention modulus at 100% Retention elongation at break 1000h/135°C, Cross Direction Change in hardness Retention tensile strength Retention modulus at 100% Retention elongation at break	ASTM D-573	2.0 87 103 84 2.0 93 109 82	 % % % % %	2.0 87 103 84 2.0 93 109 82	 % % % % %
Volume swell 70h/125°C Oil #3	ASTM D-471	86	%	87	%
Rheology Apparent Shear Viscosity @ 206 1/s, 200 °C	ASTM D-3835	338	Pa.s	338	Pa.s

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









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SARLINK[®] X5775-4 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 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[®] X5775-4 BLK 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.

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® X5775-4 BLK 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.







