

**PRODUCT DATA SHEET &  
PROCESS & HANDLING GUIDE**

Sarlink®

DSM Elastomers  
*the Experience*

**SARLINK® 9165**

Typical properties*	Test method	Typical value	Units S.I.
<b>Density</b>	ISO 1183	960	Kg/m <sup>3</sup>
<b>Hardness shore (5 sec)</b> Extruded sample	ISO 868	66A	
<b>Stress/strain properties</b> <u>Cross direction</u> Tensile strength Elongation at break  <u>flow direction</u> Tensile strength Elongation at break	ISO 37	6.9 570  4.5 215	MPa %  MPa %
<b>Tear strength</b> (cross direction) Unnicked angle	ISO 34B (a)	27	kN/m
<b>Compression set</b> 72h/23°C 22h/70°C	ISO 815	24 35	% %
<b>Hot air aging</b> 28 days/125°C Change in hardness Retention tensile strength Retention elongation at break	ISO 188	-1 90 98	pts % %

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

A medium hardness thermoplastic elastomer especially designed for use in building profiles. Available in both black and natural SARLINK® 9165 exhibits excellent elasticity, flex fatigue, high and low temperature performance. The material can be processed on conventional thermoplastic extruders into window and door gaskets. Co extruded with harder SARLINK® grades, polypropylenes or TPO's it offers an excellent combination of sealing and structural components.

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EXTRUSION CONDITIONS		
Melt temperature		195-215°C
Barrel Temperatures	Rear Transition Metering Front Die	180-205°C 180-205°C 187-210°C 187-210°C 195-215°C
Roll Temperature		20-50°C
Screen Pack		20 to 60 mesh
	General purpose 3:1 compression ratio	

SARLINK® 9165 is a polypropylene based elastomer which can be processed on conventional thermoplastic equipment for extrusion. This product has a wide processing window in most applications. Melt temperatures from 185°C to 220°C can be used. Do not exceed 240°C. Drying is recommended for extrusion (2 hours at 80°C).

**PURGING**

SARLINK® 9165 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.

**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® 9165 is available in 20 kg polyethylene bags (up to 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.

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