

A low hardness thermoplastic elastomer foaming grade designed to be used with chemical blowing agents such as Hydrocerol BIH-40-E. Sarlink® XRD8145 can be foamed to lower densities with varying blowing agent content and using specific extrusion conditions. Applications for this product would be foamed profiles for construction and automotive markets.

Typical Properties*	Test Method	S.I.		U.S.	
		Typical Value	Units	Typical Value	Units
Hardness shore A (5 sec) Injection moulded sample Extruded sample	ASTM D-2240 5 sec. delay 5 sec. delay	47 44		47 44	
Specific gravity	ASTM D-792	0.92		0.92	
Stress/strain properties <u>Flow direction</u> Modulus 100% Tensile strength Elongation at break <u>Cross direction</u> Modulus 100% Tensile strength Elongation at break	ASTM D-412 Die C	2.7 1.6 316 4.5 1.2 618	MPa MPa % MPa MPa %	392 232 316 653 174 618	Psi Psi % Psi Psi %
Tear strength <u>Cross direction</u> Trouser	ASTM D-624	20.7	kN/m	118	Pli
Compression set 22h/23°C 22h/70°C	ASTM D-395 Method B	17 27	% %	17 27	% %
Rheology <u>Apparent Shear Viscosity</u> @ 206 1/s, 200°C	ASTM D-3835	260	Pa.s	260	Pa.s

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

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PROCESSING For detailed processing conditions, please refer to Foam Extrusion Processing Guidelines manual which may be obtained from DSM Thermoplastic Elastomers.

DIE DESIGN

More or less customary dies are used for foam extrusion. Please consult the Tech Service department at DSM for advice.

COLORING

The use of polyolefin based color concentrates is recommended.

PURGING

Sarlink® XRD8145 with blowing agent has good melt stability. Empty the barrel for idle periods to keep blowing agent from activating in the barrel and building excessive pressure. Purge thoroughly before and after using this product with XRD8145 without blowing agent or similar materials.

STORAGE & HANDLING

Sarlink® XRD8145 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.

DSM Thermoplastic Elastomers Inc. is an ISO 9001 registered company
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