



ProFlex™ SEBS

ProFlex™ is a comprehensive range of Styrene Ethylene Butylene Styrene (SEBS) Thermoplastic Elastomers (TPEs). These unique polymers offer excellent elastomeric properties, with design flexibility and ease of processing via injection molding and extrusion. ProFlex™ SEBS is available in standard, tear resistant, and ProPell™ formulations across a range of durometers. Foster can also customize formulations if the application requires it.

ProFlex™ SEBS was designed to be used in a variety of medical applications including catheters, surgical handles and ergonomic grips. ProFlex™ SEBS is available in a variety of development quantities upon request.

General Properties: Standard, Tear Resistant and Low Friction Grades

PROPERTY	TEST METHOD	UNITS	Standard ProFlex™ SEBS			Tear Resistant ProFlex™ SEBS			ProPell™ Low Friction ProFlex™ SEBS		
			35A	55A	75A	35A	55A	75A	35A	55A	75A
HARDNESS	ASTM D2240	SHORE A	35	54	75	35	56	75	35	55	77
STRESS BREAK	ASTM D412	PSI	473	777	1,115	755	981	1,577	532	846	1,336
STRAIN BREAK	ASTM D412	%	516	381	625	640	496	715	563	432	715
TENSILE STRENGTH 100%E	ASTM D412	PSI	117	297	471	157	300	537	132	298	554
TENSILE MODULUS	ASTM D638	PSI	153	546	1,530	208	623	1,611	186	573	1,678
TEAR RESISTANCE	ASTM D624	PLI	63.27	109.75	198.8	77.43	138.87	195.8	67.6	112.14	208.47
CoF (STAINLESS STEEL)	ASTM D1894	-	2.33	1.96	1.21	3.42	1.90	0.84	2.29	1.60	0.72



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