



Product Information

ESC-thane™ Compound U95K-BK
Polyether based thermoplastic polyurethane

Property	Test Method	Units	Value
Hardness , Shore A	ASTM D2240	Shore A	94
Hardness , Shore D	ASTM D2240	Shore D	46
Specific Gravity	ASTM D792		1.2
Tensile Strength	ASTM D412	psi	5,800
Tensile Stress @ 20% elongation	ASTM D412	psi	1,380
Tensile Stress @ 50% elongation	ASTM D412	psi	1,770
Tensile Stress @ 100% elongation	ASTM D412	psi	2,000
Tensile Stress @ 300% elongation	ASTM D412	psi	3,250
Elongation at Break	ASTM D412	%	510
Tear Strength	ASTM D624	pli	760
Compression Set 22 hours at 25°C (77°F)	ASTM D395	%	15
Compression Set 22 hours at 70°C (158°F)	ASTM D395	%	25
Compression Set 70 hours at 25°C (77°F)	ASTM D395	%	30
Compression Set 70 hours at 70°C (158°F)	ASTM D395	%	35
Flexural Modulus	ASTM D790	psi	
Rebound, Bayshore	ASTM D2632	%	
Abrasion	ISO 4649	mm ³	30
Tg		F (C)	
Vicat Softening point	ASTM D1525	F (C)	(170°)
Operating Temperature			-40F° TO -250°F
Reinforcement			NO
Color			BLACK

The information provided in this data sheet corresponds to our knowledge on the subject at the date of this publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such materials used in combination with any other material, additives or pigments or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specifications limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to do to determine the suitability of a specific compound for your particular purpose. Since Engineered Seals, LLC cannot anticipate all variation in actual end-use conditions ESC makes no warranties and assumes no liability in connection with any use of this information. Caution: Do not use this product in medical application involving permanent implantation in the human body.

***We highly recommend testing in your specific application, this is a guide only.**

