



Product Information

ESC-thane™ Compound U94-BK

TPU thermoplastic polyester urethane

Property	Test Method	Units	Value
Mechanical			
Tensile Modulus	ASTM D 412	MPa (psi)	
@50% Elongation			8.4 (2250)
@100% Elongation			11.0 (1600)
@300% Elongation			27.6 (4000)
Ultimate Tensile Strength	ASTM D 412	MPa (psi)	44.8 (6500)
Ultimate Elongation	ASTM D 412	%	400
Elongation Set After Break	ASTM D 412	%	30
Tear Strength, Die "C"	ASTM D 624	KN/m (PLI)	145 (830)
Compression Set	ASTM D 395		
22 hours at 25 C (77 F)	Method B	%	25
22 hours at 70 C (158 F)		%	29
Hardness , Shore A	ASTM D 2240		90-98A
Taber Abrasion Resistance	ASTM D 1044		
1000 g, 1,000 cycles; H-22 wheel (coarser)		10	mg
Flexural Modulus	ASTM D 790	Mpa (psi)	82.7 (12,000)
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.