

TPE-SEBS 1300 95A Filament

TPE-SEBS 1300 95A 3D printing filament is a Shore 95A elastomer that does not require drying to process and has excellent bed adhesion. It also enables printing ease. TPE-SEBS 1300 95A has better elasticity for applications that require flexibility and durability with the added benefit of excellent processing and no required drying. TPE-SEBS 1300 95A is slightly firmer than the 85A product to meet application requirements that call for flexibility but also need more rigidity to achieve the finished part performance. TPE-SEBS 1300 95A works on all open-platform desktop printers and can be run on Bowden Tube or direct drive configurations.

TPE-SEBS 1300 95A can be used for parts that need elastomeric properties that can bend, flex and stretch and has demonstrated a very high success rate in printing complex geometries. TPE-SEBS 1300 95A is similar to rubber and other thermoplastic elastomers in its properties. This material has a similar feel to harder grades of TPU and TPO products with less warp, more bed adhesion and fewer printing issues. TPE-SEBS 1300 95A is well suited to printing parts that require toughness and resilience as well as some flexibility and fatigue resistance. Some common applications include (but are not limited to): automotive interior trim components, packaging closures, covers and housings, drips, no slip feet for electronic and mechanical components, and gap seals. This material is nonhygroscopic and can be printed without drying.

ADVANTAGES

The TPE-SEBS 1300 95A is a soft material that is less flexible than the TPE-SEBS 1300 85A. Advantages of the TPE-SEBS include no drying required, high flexibility, less visible layer lines, lower warpage and curl compared to other elastomers, and a higher print success rate.

STORAGE AND USE

Because the material is non-hygroscopic, there is no need to dry the filament during printing. during printing.



PROPERTIES

MECHANICAL PROPERTIES¹

	Test Condition	Typical Value	Method
Tensile Modulus (MPa)	XY coupons, Ambient	93	ASTM D638, Type IV
Tensile Elongation at Break (%)	XY coupons, Ambient	780	ASTM D638, Type IV
Ultimate Tensile Strength (MPa)	XY coupons, Ambient	11	ASTM D638, Type IV
Compression Set (%)	XY coupons, Ambient	43.8	ASTM D395
Tear Strength (N/mm)	XY coupons, Ambient	97	ASTM D624
Durometer (Shore A)	Injection Molded	95	ASTM D2240

¹Testing conducted on printed coupons using Jabil's published print profiles. Typical values are for reference only.

THERMAL PROPERTIES

	Test Condition	Typical Value	Method
Melt Temperature (°C)	20°C/min ramp	165	DSC

OTHER PHYSICAL PROPERTIES

	Test Condition	Typical Value	Method
Density (g/cm ³)	Ambient	1.053	ASTM D792

DIMENSIONAL PROPERTIES

	Test Condition	Typical Value	Method
Diameter: Mean, Indiv. Axis (mm)	In-line, 100% inspection	1.75 or 2.85	Laser Micrometer

Disclaimer: The information in this technical data sheet, including material properties, are obtained from testing representative samples under carefully controlled conditions and are provided for reference only. Material properties may be impacted by storage, handling, processing equipment/parameters, and product design, among other factors. The information is not a substitute for user testing to determine fitness for any specific use and the user is responsible for ensuring safe and lawful use of the product.

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