

Product Information

UNISOFT TPE™ ST-85A-BK-3-01

DESCRIPTION TPE Compound based on Styrene-Ethylene/Butylene-Styrene Block Copolymer

FEATURES Standard grade with adhesion to Polypropylene; excellent outdoor resistance; easy processing;

APPLICATIONS Unis of t TPE™ **ST-85A-BK-3-01** is a general grade intended for use in injection molding and extrusion;

Mostly used for applications in the Industrial, Electronics & Automotive industry

COLOR Black color (about RAL 9005)

SUPPLIER UNITED SOFT PLASTICS, INC.

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MECHANICAL PROPERTIES	TEST METHOD	ENGLISH - UNITS	SI - UNITS
SHORE HARDNESS	ASTM D - 2240	85 A	85 A
SPECIFIC GRAVITY	ASTM D-792	1.14 (g/cc)	1.14 (g/cc)
TENSILE STRENGTH	ASTM D-412	1,600 (psi)	11.0 (Mpa)
ELONGATION AT BREAK	ASTM D-412	650 (%)	650 (%)
TEAR STRENGTH	ASTM D - 624	185 (pli)	32 (N/mm)

PROCESSING INFORMATION

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PURGING Purge thoroughly before and after use of this product (e.g. Polypropylene with MFI between 0.5 – 2.5)

DRYING TIME Material is not hygroscopic and drying is only necessary if material was stored under moisture.

COLORING Material is already pre-colored.

 $\textbf{SHRINKAGE PROPERTIES} \qquad \text{Unisoft TPE}^{\,\,\,\,\,\,} \text{ grades are anisotropic materials. Their shrinkage properties are higher in the flow direction, and}$

the shrinkage in the cross-flow direction is less. Unisoft TPETM ST-85A-BK-3-01 shows shrinkage values

between 0.5 - 1.5 %.

RHEOLOGICAL PROPERTIES Actual rheological data of Unisoft TPE™ materials are shear dependence. Viscosity will decrease at higher shear

rates, and should be considered during injection molding design and setup of processing conditions.

 MOLDING TEMPERATURES
 Rear
 340 - 375 °F
 170 - 190 °C

 Front
 375 - 410 °F
 190 - 210 °C

Nozzle $410 - 465 \, ^{\circ} F$ $210 - 240 \, ^{\circ} C$ Mold $85 - 150 \, ^{\circ} F$ $30 - 65 \, ^{\circ} C$

NOTICE

The properties shown are typical values and are not intended as product specification. All information given should serve only as a guide. There is no implied warranty of merchantability or fitness for a particular purpose. Establishing satisfactory performance of the product for the intended application is the customer's role responsibility. No warranty is given concerning the existence or non-existence of any patents claiming any pertinent subject matter presented herein.

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