

Product Information

UNISOFT TPE™ ST-90A-BK-1-01

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

FEATURES Standard grade with excellent adhesion to Polypropylene; excellent processing; pre-colored;

APPLICATIONS Unis of t TPE™ **ST-90A-BK-1-01** is a general grade intended for use in injection molding.

All ingredients used for this compound are in compliance with certain FDA regulations.

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	90 A	90 A
SPECIFIC GRAVITY	ASTM D-792	1.17 (g/cc)	1.17 (g/cc)
TENSILE STRENGTH	ASTM D-412	1,800 (psi)	12.4 (Mpa)
ELONGATION AT BREAK	ASTM D-412	550 (%)	550 (%)

PROCESSING INFORMATION

PROCESSING INFORMATION Injection Molding, Extrusion

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 condition.

COLORING Material is already pre-colored

SHRINKAGE PROPERTIES Unisoft TPE™ grades are an-isotropic materials. Their shrinkage properties are higher in the flow direction, and

the shrinkage in the cross-flow direction is less. Unisoft TPE™ **ST-90A-BK-1-01** 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
 355 - 390 °F
 180 - 200 °C

 Front
 390 - 430 °F
 200 - 220 °C

 Nozzle
 430 - 465 °F
 220 - 240 °C

 Mold
 85 - 150 °F
 30 - 65 °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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