U S P
UNITED SOFT PLASTICS

Product Information

UNISOFT TPE™ ST-40A-CL-1-01

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

FEATURES Standard grade with adhesion to Polypropylene, low density, translucent, excellent processing, J&J approval;

APPLICATIONS Unisoft TPE™ **ST-40A-CL-1-01** is a general grade intended for use in injection molding and extrusion processes. All ingredients used for this compound are in compliance with certain FDA regulations.

COLOR Clear color, translucent

SUPPLIER
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MECHANICAL PROPERTIES	TEST METHOD	ENGLISH - UNITS	S I - UNITS
SHORE HARDNESS	ASTM D - 2240	40 A	40 A
SPECIFIC GRAVITY	ASTM D - 792	0.88 (g / cc)	0.88 (g / cc)
TENSILE STRENGTH	ASTM D - 412	1,100 (psi)	7.6 (Mpa)
ELONGATION AT BREAK	ASTM D - 412	700 (%)	700 (%)

PROCESSING INFORMATION

PROCESSING INFORMATION Injection Molding (preferable standard 2-component injection molding machine to get adhesion to substrate), 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.

COLORING Material can be easily colored with standard color concentrates used for coloring Polypropylene.

SHRINKAGE PROPERTIES Unisoft TPE™ grades are anisotropic materials. Their shrinkage properties are higher in the flow direction, and the shrinkage in the cross-flow direction is less. Unisoft TPE™ **ST-40A-CL-1-01** shows shrinkage values between 0.5 – 3.5 %.

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	320 - 355 ^{0}F	160 - 180 ^{0}C
	Front	355 - 395 ^{0}F	180 - 200 ^{0}C
	Nozzle	395 - 410 ^{0}F	200 - 210 ^{0}C
	Mold	85 - 150 ^{0}F	30 – 65 ^{0}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.