

UNISOFT TPE™ ST-45A-CL-1-01

DESCRIPTION	TPE Compound based on Styrene-Ethylene/Butylene-Styrene Block Copolymer
FEATURES	Standard grade with adhesion to Polypropylene, low density, translucent
APPLICATIONS	Unisoft TPE™ ST-45A-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	UNITED SOFT PLASTICS, INC. 720 Raco Drive Lawrenceville, GA 30045 - USA Assistance: +1 404 543 3527

MECHANICAL PROPERTIES	TEST METHOD	ENGLISH - UNITS	SI - UNITS
SHORE HARDNESS	ASTM D - 2240	45 A	45 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	750 (%)	750 (%)

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-45A-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 °F	160 - 180 °C
	Front	355 - 395 °F	180 - 200 °C
	Nozzle	395 - 410 °F	200 - 210 °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.