



UNITED SOFT PLASTICS

Product Information

UNISOFT TPE™ ST-55A-BK-3-01

DESCRIPTION	TPE Compound based on Styrene-Ethylene/Butylene-Styrene Block Copolymer
FEATURES	Standard grade with adhesion to Polypropylene; Soft-touch, Improved outdoor resistance;
APPLICATIONS	Unisoft TPE™ ST-55A-BK-3-01 is a general grade intended for usage in injection molding and/or extrusion process. The material is mostly used for applications in the Electronic & Automotive industry.
COLOR	Black color (about RAL 9005)
SUPPLIER	UNITED SOFT PLASTICS, INC. 720 Raco Drive Lawrenceville, GA 30045 USA Assistance: +1 770 339 9362

MECHANICAL PROPERTIES	TEST METHOD	ENGLISH - UNITS	SI - UNITS
SHORE HARDNESS	ASTM D - 2240	55 A	55 A
SPECIFIC GRAVITY	ASTM D - 792	1.19 (g / cc)	1.19 (g / cc)
TENSILE STRENGTH	ASTM D - 412	900 (psi)	6.2 (Mpa)
ELONGATION AT BREAK	ASTM D - 412	750 (%)	750 (%)
TEAR STRENGTH	ASTM D - 624	85 (pli)	14.5 (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.		
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-55A-BK-3-01 shows shrinkage values between 0.5 – 2.5 %.		
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	325 - 360 °F	160 - 180 °C
	Front	360 - 395 °F	180 - 200 °C
	Nozzle	395 - 430 °F	200 - 220 °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.