

UNISOFT ADHESION™ AD-63A-NT-1-32

DESCRIPTION	TPE Compound based on Styrene-Ethylene/Butylene-Styrene Block Copolymer
FEATURES	Special bonding grade to PC/ABS, PC/PBT, PC, ABS, PBT, PET and PET-G; excellent processing; improved surface properties;
APPLICATIONS	Unisoft Adhesion™ AD-63A-NT-1-32 is a general adhesion grade intended for use in injection molding and extrusion processes. All ingredients used for this compound are in compliance with certain FDA regulations.
COLOR	Natural color (about RAL 9010)
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	63 A	63 A
SPECIFIC GRAVITY	ASTM D - 792	1.16 (g/cc)	1.16 (g/cc)
TENSILE STRENGTH	ASTM D - 412	825 (psi)	5.7 (Mpa)
ELONGATION AT BREAK	ASTM D - 412	575 (%)	575 (%)

PROCESSING INFORMATION

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PURGING	Purge thoroughly before and after use of this product (e.g. Polystyrene or 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, however pre-drying can be useful to achieve a better adhesion result to the substrate. (Pre-drying conditions: 2-4hours at appr. 150 °F / 65 °C)
COLORING	Material can be easily colored with standard color concentrates used for coloring Polystyrene or Polypropylene.
SHRINKAGE PROPERTIES	Unisoft Adhesion grades are anisotropic materials. Their shrinkage properties are higher in the flow direction, and the shrinkage in the cross-flow direction is less. Unisoft Adhesion AD-63A-NT-1-32 shows shrinkage values between 1.0 – 2.2 %.
RHEOLOGICAL PROPERTIES	Rheological data of Unisoft Adhesion materials are shear dependant, and their viscosity is increasing at low shear rates and vice versa flow rates increase at higher shear rates. Therefore we recommend that this fact should be considered when designing injection molds and also when setting mold conditions during processing.
MOLDING TEMPERATURES	Temperatures are shown for PET-G adhesion. For better adhesion results to other substrates temperatures can be increased in the first 3 zones up to 25°F/15°C per zone.

Zone 1) Rear	390 - 410 °F	200 - 210 °C
Zone 2) Front	425 - 445 °F	220 - 230 °C
Zone 3) Nozzle	455 - 475 °F	235 - 245 °C
Mold	105 - 150 °F	40 – 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.