## UNISOFT ADHESION™ AD-45A-NT-5-01

Styrene Ethylene Butylene Styrene Block Copolymer UNITED SOFT PLASTICS, Inc.

## Message:

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

Bondability General Purpose Good Adhesion  Uses  Adhesives Bonding General Purpose  FDA Unspecified Rating  Appearance Natural Color Forms Pellets Processing Method Extrusion Injection Molding  Physical Nominal Value Unit Test Method Specific Gravity 1.11 g/cm³ ASTM D792 Molding Shrinkage - Flow 1.4 to 3.0 % ASTM D792 Molding Shrinkage - Flow 1.4 to 3.0 % ASTM D995 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 45 ASTM D2240 Elestomers Nominal Value Unit Test Method Tensile Strength (Yield) 4.24 MPa ASTM D412 Tensile Etongation (Break) 740 % ASTM D412 Tensile Etongation (Break) 740 % ASTM D412 Tensile Strength 12.3 kN/rm ASTM D624 Injection Nominal Value Unit Rear Temperature 179 to 193 °C Front Temperature 199 to 218 °C	General Information			
General Purpose Good Adhesion  Uses  Adhesives Bonding General Purpose  Agency Ratings  FDA Unspecified Rating Appearance Natural Color Forms Pellets Processing Method Extrusion Injection Molding  Physical Nominal Value Unit Test Method Durometer Hardness (Shore A) 45 Elastomers Nominal Value Unit Test Method Unit Test Method Durometer Hardness (Shore A) 45 Elastomers Nominal Value Unit Test Method Unit Test Method Durometer Hardness (Shore A) 45 Elastomers Nominal Value Unit Test Method Test Method Unit Test Method Test Method Tensile Strength (Yield) 4.24 MPa ASTM D2240 Elastomers Nominal Value Unit Test Method Tensile Strength (Yield) 4.24 MPa ASTM D412 Tensile Elongation (Break) 740 % ASTM D412 Tensile Elongation (Break) 12.3 kN/m ASTM D624 Injection Nominal Value Unit Rear Temperature 179 to 193 °C Front Temperature 199 to 218 °C Nozzle Temperature 224 to 246 °C	Features	Block Copolymer		
Uses Adhesives Bonding General Purpose  Agency Ratings FDA Unspecified Rating Appearance Natural Color Forms Pellets Processing Method Extrusion Injection Molding Physical Nominal Value Unit Test Method Specific Gravity 1.11 g/cm³ ASTM D792 Molding Shrinkage - Flow 1.4 to 3.0 % ASTM D955 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 45 Elastomers Nominal Value Unit Test Method Durometer Hardness (Shore A) 45 Elastomers Nominal Value Unit Test Method Tensile Strength (Yield) 4.24 MPa ASTM D412 Tensile Elongation (Break) 740 % ASTM D624 Injection Nominal Value Unit Rear Temperature 179 to 193 °C Front Temperature 199 to 218 °C Nozzle Temperature 224 to 246 °C		Bondability		
Uses Adhesives Bonding General Purpose  FDA Unspecified Rating  Appearance Natural Color Forms Pellets Processing Method Extrusion Injection Molding  Physical Nominal Value Unit Test Method  Specific Gravity 1.11 g/cm³ ASTM D792  Molding Shrinkage - Flow 1.4 to 3.0 % ASTM D955  Hardness Nominal Value Unit Test Method  Durometer Hardness (Shore A) 45 ASTM D240  Elastomers Nominal Value Unit Test Method  Tensile Strength (Yield) 4.24 MPa ASTM D412  Tensile Elongation (Break) 740 % ASTM D412  Tera Strength 12.3 kN/m ASTM D624  Injection Nominal Value Unit  Test Method  Tensile Elongation (Break) 740 % ASTM D412  Tera Strength 12.3 kN/m ASTM D624  Injection Nominal Value Unit  Rear Temperature 179 to 193 °C  Front Temperature 199 to 218 °C  Nozzle Temperature 199 to 218 °C		General Purpose		
Bonding General Purpose  FDA Unspecified Rating  Appearance Natural Color  Forms Pellets  Processing Method Extrusion Injection Molding  Physical Nominal Value Unit Test Method  Specific Gravity 1.11 g/cm³ ASTM D792  Molding Shrinkage - Flow 1.4 to 3.0 % ASTM D955  Hardness Nominal Value Unit Test Method  Durometer Hardness (Shore A) 45 ASTM D240  Elastomers Nominal Value Unit Test Method  Durometer Hardness (Shore A) 45 ASTM D240  Elastomers Nominal Value Unit Test Method  Tensile Strength (Yield) 4.24 MPa ASTM D412  Tensile Strength (Yield) 4.24 MPa ASTM D412  Tensile Elongation (Break) 740 % ASTM D412  Tear Strength 12.3 kN/m ASTM D412  Tear Strength Nominal Value Unit  Rear Temperature 179 to 193 °C  Front Temperature 199 to 218 °C  Nozzle Temperature 224 to 246 °C		Good Adhesion		
Bonding General Purpose  FDA Unspecified Rating  Appearance Natural Color  Forms Pellets  Processing Method Extrusion Injection Molding  Physical Nominal Value Unit Test Method  Specific Gravity 1.11 g/cm³ ASTM D792  Molding Shrinkage - Flow 1.4 to 3.0 % ASTM D955  Hardness Nominal Value Unit Test Method  Durometer Hardness (Shore A) 45 ASTM D240  Elastomers Nominal Value Unit Test Method  Durometer Hardness (Shore A) 45 ASTM D240  Elastomers Nominal Value Unit Test Method  Tensile Strength (Yield) 4.24 MPa ASTM D412  Tensile Strength (Yield) 4.24 MPa ASTM D412  Tensile Elongation (Break) 740 % ASTM D412  Tear Strength 12.3 kN/m ASTM D412  Tear Strength Nominal Value Unit  Rear Temperature 179 to 193 °C  Front Temperature 199 to 218 °C  Nozzle Temperature 224 to 246 °C				
Agency Ratings FDA Unspecified Rating  Appearance Natural Color  Forms Pellets  Processing Method Extrusion Injection Molding  Physical Nominal Value Unit Test Method  Specific Gravity 1.11 g/cm³ ASTM D792  Molding Shrinkage - Flow 1.4 to 3.0 % ASTM D955  Hardness Nominal Value Unit Test Method  Durometer Hardness (Shore A) 45 ASTM D240  Elastomers Nominal Value Unit Test Method  Durometer Hardness (Shore A) 45 ASTM D2240  Elastomers Nominal Value Unit Test Method  Tensile Strength (Yield) 4.24 MPa ASTM D412  Tensile Strength (Yield) 4.24 MPa ASTM D412  Tensile Elongation (Break) 740 % ASTM D412  Tear Strength 12.3 kN/m ASTM D624  Injection Nominal Value Unit  Rear Temperature 179 to 193 °C  Front Temperature 199 to 218 °C  Nozzle Temperature 224 to 246 °C	Uses	Adhesives		
Agency Ratings FDA Unspecified Rating  Appearance Natural Color  Forms Pellets  Processing Method Extrusion Injection Molding  Physical Nominal Value Unit Test Method  Specific Gravity 1.11 g/cm³ ASTM D792  Molding Shrinkage - Flow 1.4 to 3.0 % ASTM D955  Hardness Nominal Value Unit Test Method  Durometer Hardness (Shore A) 45 Unit Test Method  Durometer Hardness (Shore A) 45 Warm ASTM D2240  Elastomers Nominal Value Unit Test Method  Tensile Strength (Yield) 4.24 MPa ASTM D412  Tensile Elongation (Break) 740 % ASTM D412  Tear Strength (Shore A) Nominal Value Unit  Test Method Warm ASTM D412  Tensile Elongation (Break) 740 % ASTM D412  Tear Strength 12.3 kN/m ASTM D624  Injection Nominal Value Unit  Rear Temperature 179 to 193 °C  Front Temperature 199 to 218 °C  Nozzle Temperature 224 to 246 °C		Bonding		
Appearance Natural Color Forms Pellets Processing Method Extrusion Injection Molding  Physical Nominal Value Unit Test Method Specific Gravity 1.11 g/cm³ ASTM D792  Molding Shrinkage - Flow 1.4 to 3.0 % ASTM D955  Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 45 ASTM D2240  Elastomers Nominal Value Unit Test Method Tensile Strength (Yield) 4.24 MPa ASTM D412  Tensile Elongation (Break) 740 % ASTM D412  Tear Strength (Shore A) 12.3 kN/m ASTM D624  Injection Nominal Value Unit  Rear Temperature 179 to 193 °C  Front Temperature 199 to 218 °C  Nozzle Temperature 224 to 246 °C		General Purpose		
Appearance Natural Color Forms Pellets Processing Method Extrusion Injection Molding  Physical Nominal Value Unit Test Method Specific Gravity 1.11 g/cm³ ASTM D792  Molding Shrinkage - Flow 1.4 to 3.0 % ASTM D955  Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 45 ASTM D2240  Elastomers Nominal Value Unit Test Method Tensile Strength (Yield) 4.24 MPa ASTM D412  Tensile Elongation (Break) 740 % ASTM D412  Tear Strength (Shore A) 12.3 kN/m ASTM D624  Injection Nominal Value Unit  Rear Temperature 179 to 193 °C  Front Temperature 199 to 218 °C  Nozzle Temperature 224 to 246 °C				
Forms Pellets Processing Method Extrusion Injection Molding  Physical Nominal Value Unit Test Method Specific Gravity 1.11 g/cm³ ASTM D792  Molding Shrinkage - Flow 1.4 to 3.0 % ASTM D955  Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 45 XSTM D240  Ellastomers Nominal Value Unit Test Method Tensile Strength (Yield) 4.24 MPa ASTM D412  Tensile Elongation (Break) 740 % ASTM D412  Tear Strength 12.3 kN/m ASTM D412  Tear Strength Nominal Value Unit  Rear Temperature 179 to 193 °C  Front Temperature 199 to 218 °C  Nozzle Temperature 224 to 246 °C	Agency Ratings	FDA Unspecified Rating		
Processing Method  Extrusion Injection Molding  Physical  Nominal Value  Unit  Test Method  Specific Gravity  1.11  g/cm³  ASTM D792  Molding Shrinkage - Flow  1.4 to 3.0  %  ASTM D955  Hardness  Nominal Value  Unit  Test Method  Durometer Hardness (Shore A)  45  ASTM D2240  Elastomers  Nominal Value  Unit  Test Method  Tensile Strength (Yield)  4.24  MPa  ASTM D412  Tensile Elongation (Break)  740  %  ASTM D412  Tear Strength  12.3  kN/m  ASTM D624  Injection  Nominal Value  Unit  Fear Temperature  179 to 193  °C  Front Temperature  199 to 218  °C  Nozzle Temperature  224 to 246  °C	Appearance	Natural Color		
Physical Nominal Value Unit Test Method Specific Gravity 1.11 g/cm³ ASTM D792 Molding Shrinkage - Flow 1.4 to 3.0 % ASTM D955 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 45 ASTM D2240 Elastomers Nominal Value Unit Test Method Tensile Strength (Yield) 4.24 MPa ASTM D412 Tensile Elongation (Break) 740 % ASTM D412 Tear Strength 12.3 kN/m ASTM D412 Tear Strength Nominal Value Unit Rear Temperature 179 to 193 °C Front Temperature 199 to 218 °C Nozzle Temperature 224 to 246 °C	Forms	Pellets		
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Specific Gravity         1.11         g/cm³         ASTM D792           Molding Shrinkage - Flow         1.4 to 3.0         %         ASTM D955           Hardness         Nominal Value         Unit         Test Method           Durometer Hardness (Shore A)         45         ASTM D2240           Elastomers         Nominal Value         Unit         Test Method           Tensile Strength (Yield)         4.24         MPa         ASTM D412           Tensile Elongation (Break)         740         %         ASTM D412           Tear Strength         12.3         kN/m         ASTM D624           Injection         Nominal Value         Unit           Rear Temperature         179 to 193         °C           Front Temperature         199 to 218         °C           Nozzle Temperature         224 to 246         °C		Injection Molding		
Specific Gravity         1.11         g/cm³         ASTM D792           Molding Shrinkage - Flow         1.4 to 3.0         %         ASTM D955           Hardness         Nominal Value         Unit         Test Method           Durometer Hardness (Shore A)         45         ASTM D2240           Elastomers         Nominal Value         Unit         Test Method           Tensile Strength (Yield)         4.24         MPa         ASTM D412           Tensile Elongation (Break)         740         %         ASTM D412           Tear Strength         12.3         kN/m         ASTM D624           Injection         Nominal Value         Unit           Rear Temperature         179 to 193         °C           Front Temperature         199 to 218         °C           Nozzle Temperature         224 to 246         °C				
Molding Shrinkage - Flow 1.4 to 3.0 % ASTM D955 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 45 ASTM D2240 Elastomers Nominal Value Unit Test Method Tensile Strength (Yield) 4.24 MPa ASTM D412 Tensile Elongation (Break) 740 % ASTM D412 Tear Strength 12.3 kN/m ASTM D624 Injection Nominal Value Unit Rear Temperature 179 to 193 °C Front Temperature 199 to 218 °C Nozzle Temperature 224 to 246 °C	Physical	Nominal Value	Unit	Test Method
Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 45 Elastomers Nominal Value Unit Test Method Tensile Strength (Yield) 4.24 MPa ASTM D412 Tensile Elongation (Break) 740 % ASTM D412 Tear Strength 12.3 kN/m ASTM D624 Injection Nominal Value Unit Rear Temperature 179 to 193 °C Front Temperature 199 to 218 °C Nozzle Temperature 224 to 246 °C	Specific Gravity	1.11	g/cm³	ASTM D792
Durometer Hardness (Shore A) 45  Elastomers Nominal Value Unit Test Method Tensile Strength (Yield) 4.24 MPa ASTM D412 Tensile Elongation (Break) 740 % ASTM D412 Tear Strength 12.3 kN/m ASTM D624 Injection Nominal Value Unit Rear Temperature 179 to 193 °C Front Temperature 199 to 218 °C Nozzle Temperature 224 to 246 °C	Molding Shrinkage - Flow	1.4 to 3.0	%	ASTM D955
Elastomers Nominal Value Unit Test Method Tensile Strength (Yield) 4.24 MPa ASTM D412 Tensile Elongation (Break) 740 % ASTM D412 Tear Strength 12.3 kN/m ASTM D624 Injection Nominal Value Unit Rear Temperature 179 to 193 °C Front Temperature 199 to 218 °C Nozzle Temperature 224 to 246 °C	Hardness	Nominal Value	Unit	Test Method
Tensile Strength (Yield) 4.24 MPa ASTM D412 Tensile Elongation (Break) 740 % ASTM D412 Tear Strength 12.3 kN/m ASTM D624 Injection Nominal Value Unit Rear Temperature 179 to 193 °C Front Temperature 199 to 218 °C Nozzle Temperature 224 to 246 °C	Durometer Hardness (Shore A)	45		ASTM D2240
Tensile Elongation (Break) 740 % ASTM D412  Tear Strength 12.3 kN/m ASTM D624  Injection Nominal Value Unit  Rear Temperature 179 to 193 °C  Front Temperature 199 to 218 °C  Nozzle Temperature 224 to 246 °C	Elastomers	Nominal Value	Unit	Test Method
Tear Strength 12.3 kN/m ASTM D624 Injection Nominal Value Unit Rear Temperature 179 to 193 °C Front Temperature 199 to 218 °C Nozzle Temperature 224 to 246 °C	Tensile Strength (Yield)	4.24	MPa	ASTM D412
Injection Nominal Value Unit  Rear Temperature 179 to 193 °C  Front Temperature 199 to 218 °C  Nozzle Temperature 224 to 246 °C	Tensile Elongation (Break)	740	%	ASTM D412
Rear Temperature 179 to 193 °C  Front Temperature 199 to 218 °C  Nozzle Temperature 224 to 246 °C	Tear Strength	12.3	kN/m	ASTM D624
Front Temperature 199 to 218 °C Nozzle Temperature 224 to 246 °C	Injection	Nominal Value	Unit	
Nozzle Temperature 224 to 246 °C	Rear Temperature	179 to 193	°C	
<u> </u>	Front Temperature	199 to 218	°C	
Mold Temperature 29.4 to 65.6 °C	Nozzle Temperature	224 to 246	°C	
	Mold Temperature	29.4 to 65.6	°C	

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