

**Description:**

epple 4551 is an adhesive with many uses. It can also be applied for rapid bondings, even with absorbing substrates. The adhesive film remains transparent and elastic.

Field of application:

epple 4551 is mainly used for the rapid bonding of different plastics and metals where the glued joint is exposed to low mechanical strain. It is suitable for the rapid bonding on absorbing materials, e. g. paper or paper board.

Application / surface:

- ⇒ The surfaces of the assembly components have to be clean and free from dust and grease.
- ⇒ Apply to the adhesive faces on one or both sides. With very absorbing surfaces, eventually apply the adhesive twice.

Cleaning of tools:

Thinner epple 11.

Chemical Basis										
1 comp.	2 comp.	solvent-containing	solvent-free	aqueous	EP	PU	Acrylate	Chloroprene	Polyvinylacetate	Terpolymer

Properties of the liquid adhesive		
Property	Standard	Value
Viscosity	DIN EN ISO 3219	2,7 Pas
Density	DIN 53479	1,01 g/cm ³
Colour		crystal clear, transparent
Solid content		38 %
Storage	24 months in closed original containers, stored in a dry and cool but frost-free place (ideal storage temperature: 5 - 30 °C).	

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Properties of the adhesive		
Property	Standard	Value
Curing ventilation time time to tangibility time to final strength	-	1 – 3 min - 24 h
Curing conditions / contact pressure	-	contact pressure
Hardness Shore-A Shore-D pendulum hardness / König	DIN 53505 DIN 53505 DIN 53157	- - -
Adhesive strength in the shear tension test steel / steel (blasted SA2,5) steel / steel (bare) aluminium / aluminium brass / brass stainless steel / stainless steel	DIN EN 1465	1,1 N/mm ² - - - -
Adhesive strength in the peel test 180 °	DIN EN 1464	< 0,9 N/cm
Surface cleavability	-	none
Glass transition temperature	DIN IEC 61006	-
Storage / change of adhesive strength 80°C / 7 days / air [steel / steel (blasted SA2,5)] 80°C / 4 hours / air [steel / steel (blasted SA2,5)]	DIN EN 1465	- -
Temperature resistance	-	- 30 °C to + 80 °C
Thermal conductivity	ISO 8894-1	-
Absorption of water 20 °C / 7 days 20 °C / 30 days 100 °C / 30 minutes	ISO 62	- - -
Chemical resistance	epple-standard	-
Insulating resistance film thickness 2 mm	DIN IEC 60167	1·10 ¹⁰ to 1·10 ¹² Ω
Volume resistance film thickness 2 mm	DIN IEC 60093	2·10 ¹¹ Ω

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Diese Druckschrift soll Sie beraten. Die in ihr gemachten Angaben entsprechen unserem besten Wissen, jedoch kann eine Verbindlichkeit daraus nicht hergeleitet werden.

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