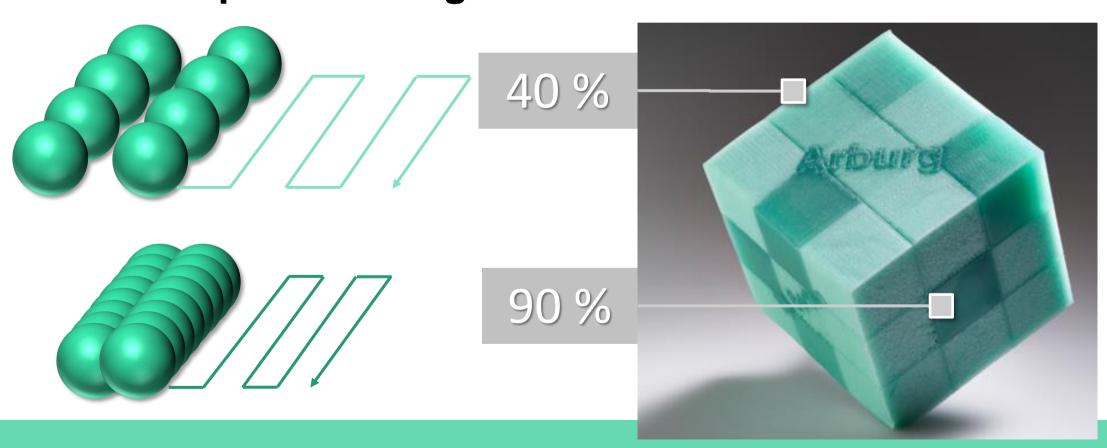


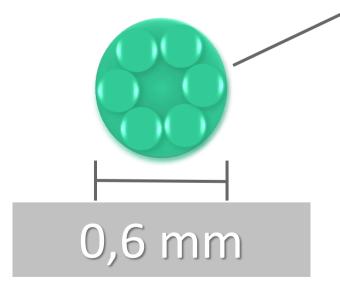


Exakter Tropfenaustrag Precise droplet discharge



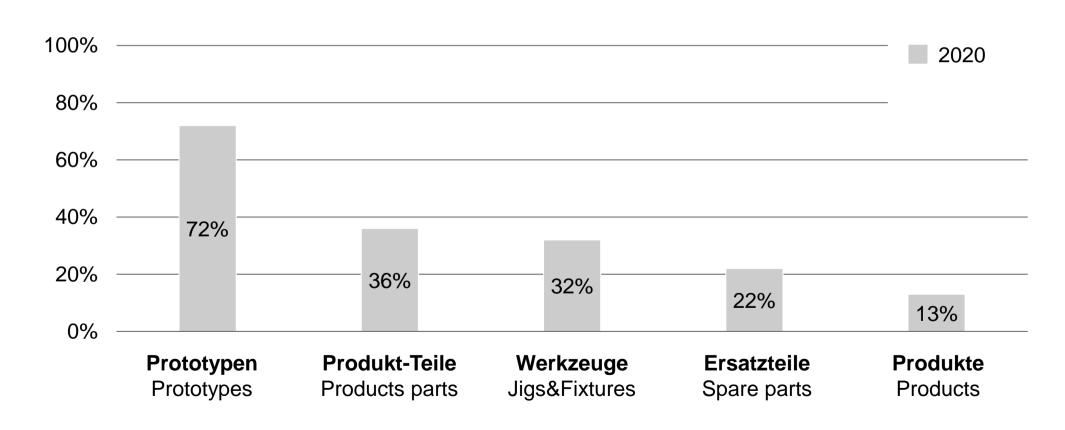


Kleine Voxel-Größe **Small voxel size**

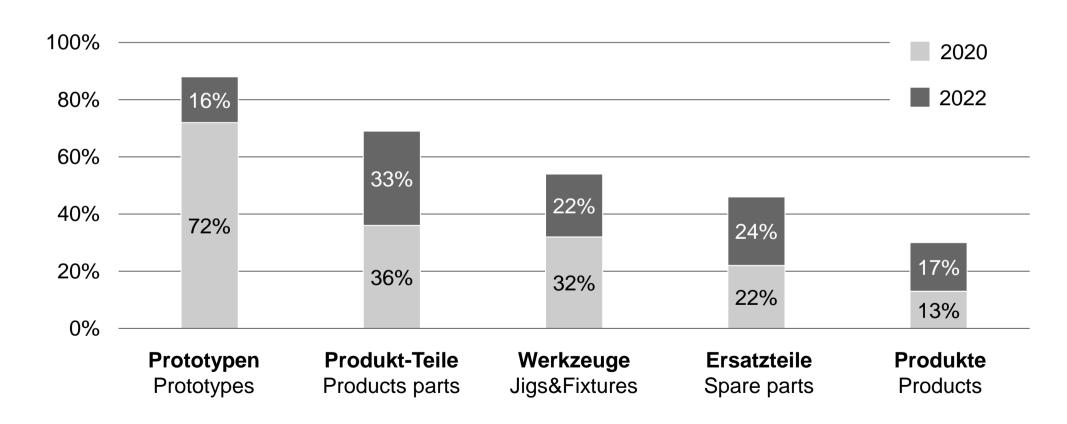




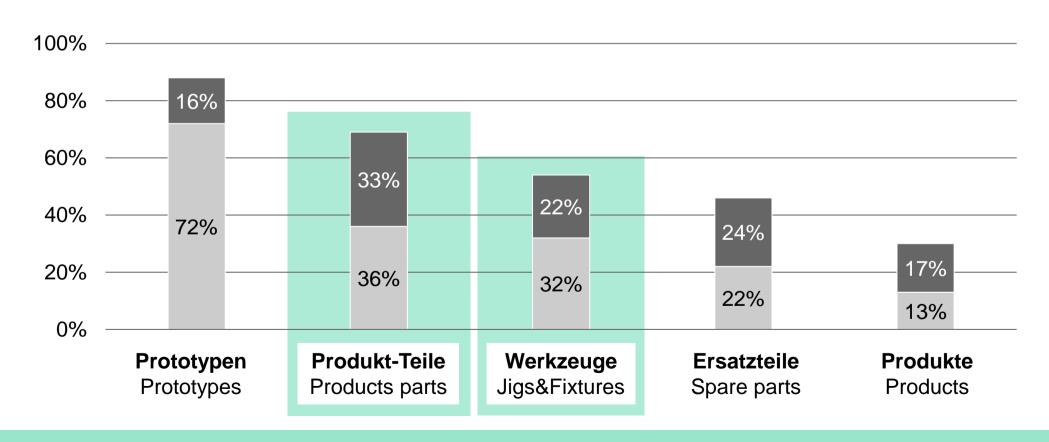






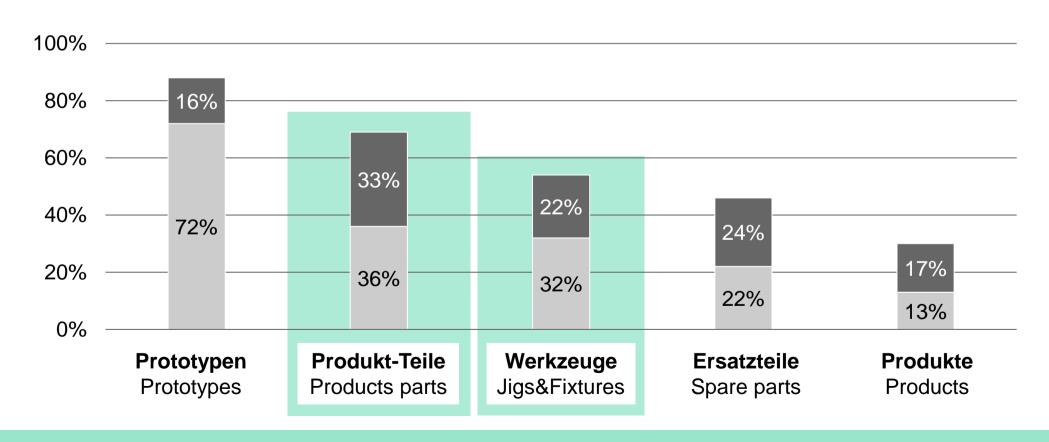






Quelle: RWTH Aachen & VDI e.V. Source: RWTH Aachen & VDI e.V.





Quelle: RWTH Aachen & VDI e.V. Source: RWTH Aachen & VDI e.V.



Tage zur Serie

Days to mass production



Tage zur Serie

Days to mass production



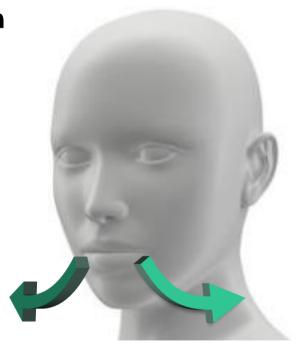


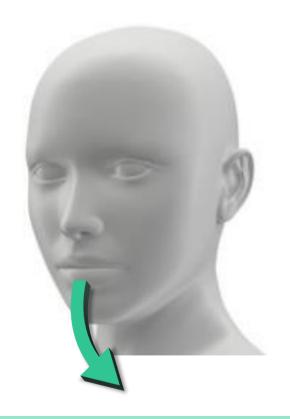
Erste Idee | Initial idea



Ausgeatmete Luft umleiten

Redirect exhaled air







Erster Prototyp | First Prototype









Erster Prototyp | First Prototype



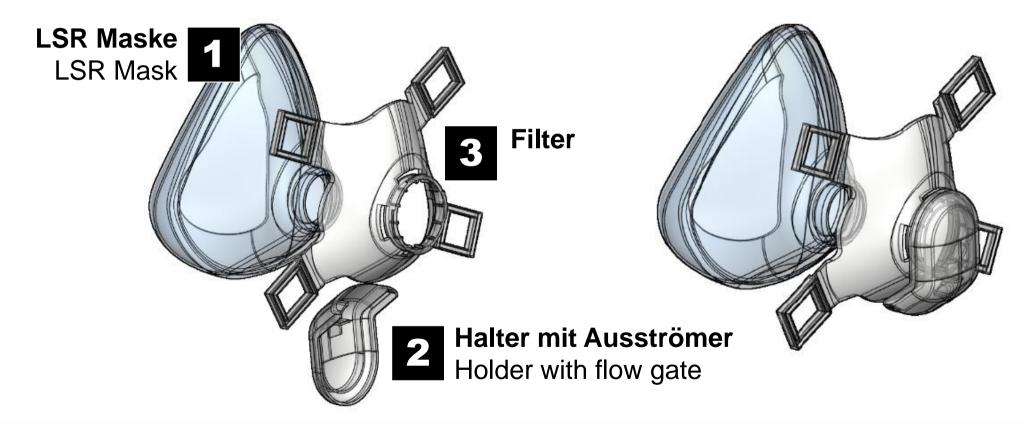






Weiterdenken Thinking ahead

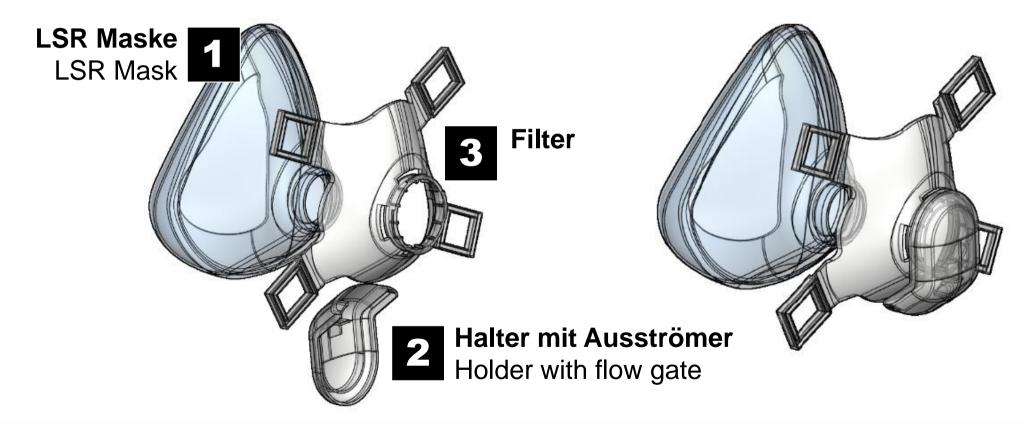






Weiterdenken Thinking ahead

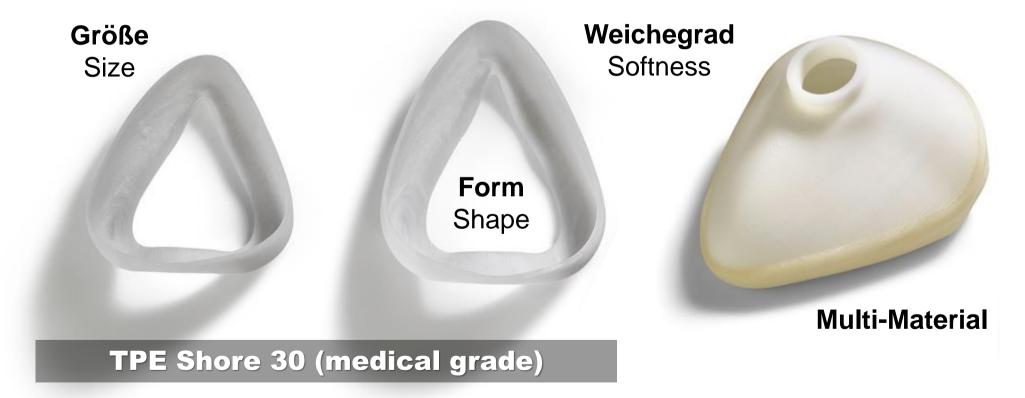






1 Prototyping Design

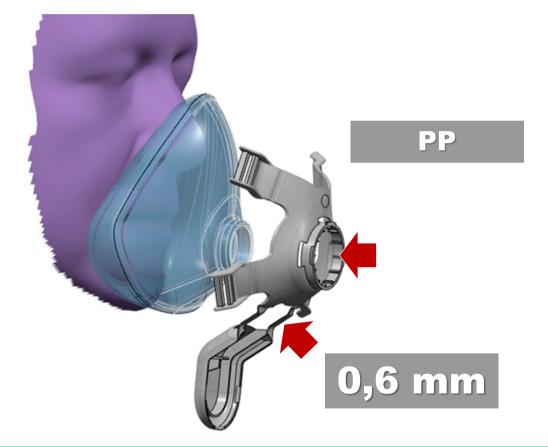


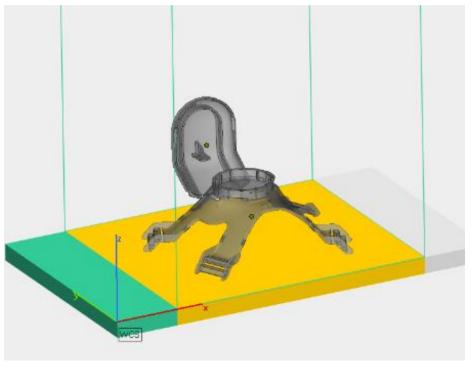




2 Prototyping Funktion | Function









3 Prototyping Design

















Denkfabrik AM | Thinktank AM

Substitution



Optimierung | Optimisation

Individualisierung | Individualisation



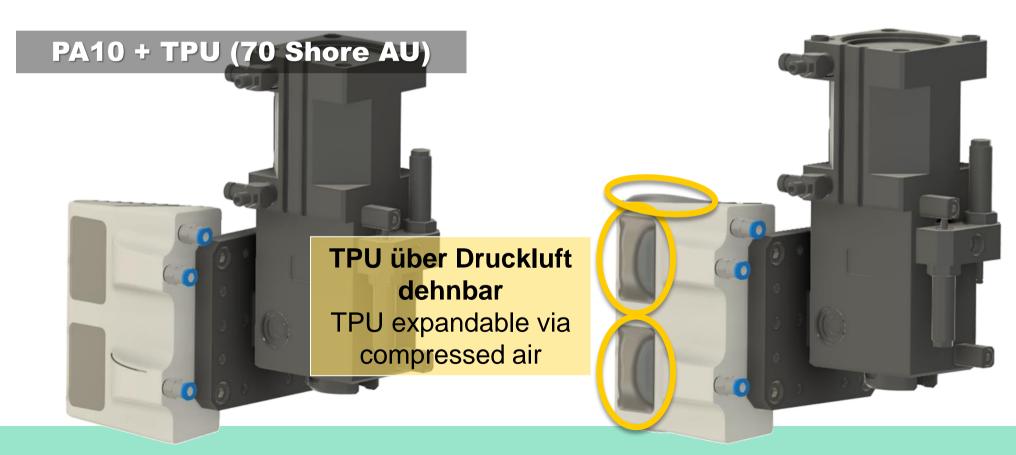
Innovation







Beispiel 2K-Greifer | Example 2-component gripper





Beispiel 2K-Greifer | Example 2-component gripper





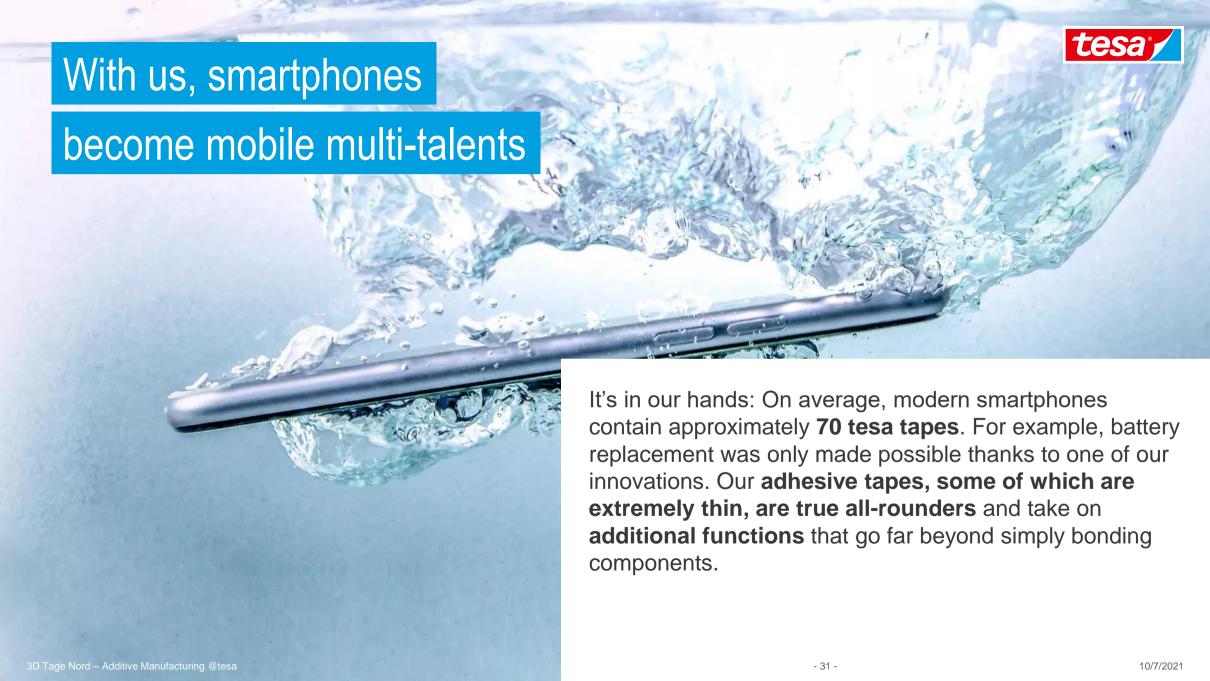






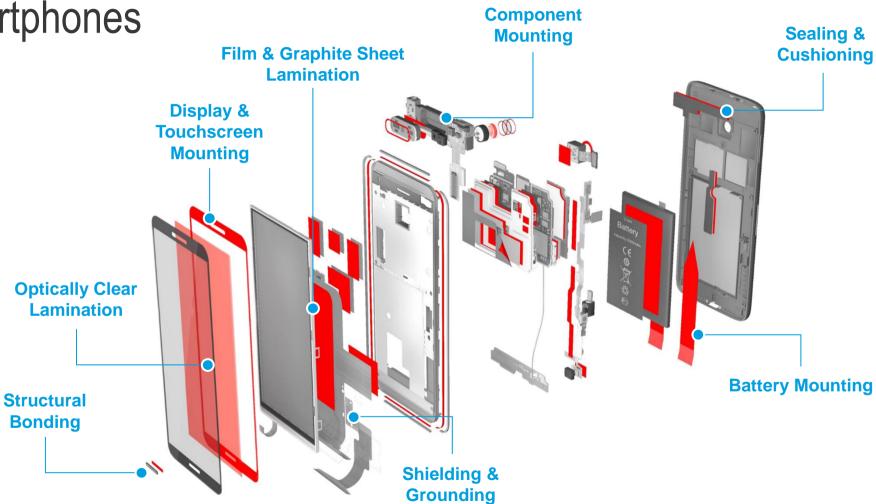
"We create adhesive solutions that improve the work, products and lives of our customers."

Our mission





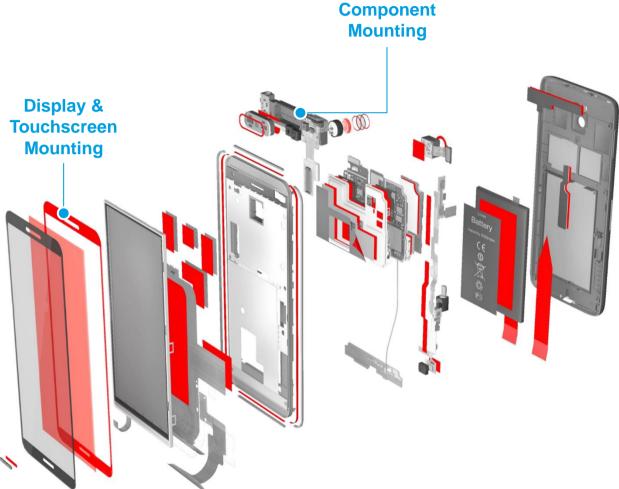
Our solutions for smartphones



3D Tage Nord – Additive Manufacturing @tesa 10/7/2021

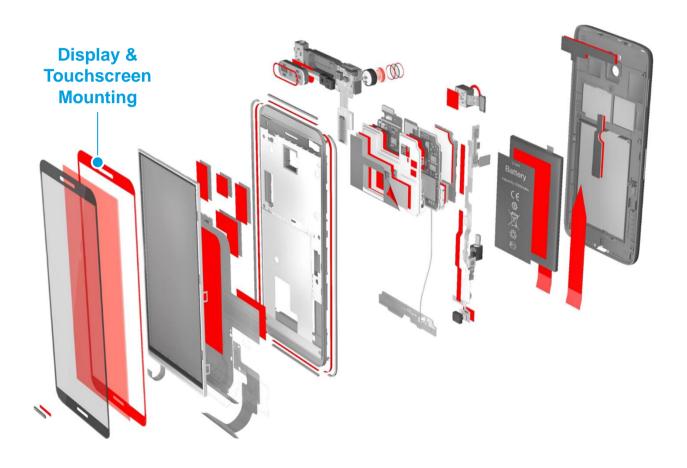


Our solutions for smartphones





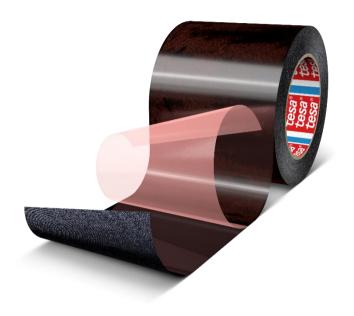
Our solutions for smartphones



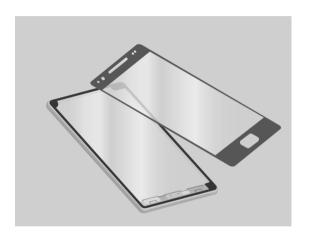
3D Tage Nord – Additive Manufacturing @tesa 10/7/2021

WHY SHOULD WE PRINT THAT FRAME?





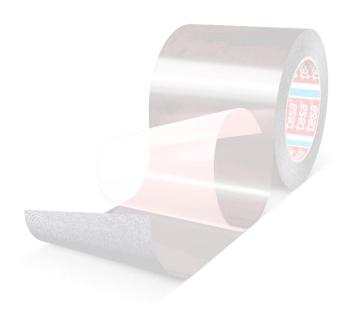


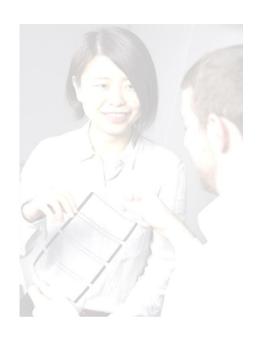


Only a few percent of material gets used...

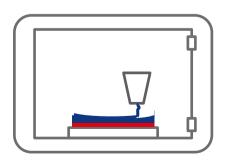
WHY SHOULD YOU PRINT THAT FRAME?



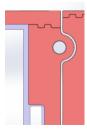






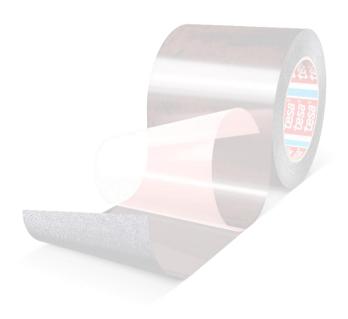


zero waste

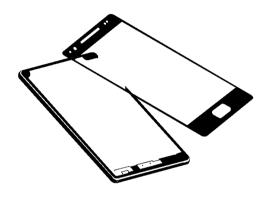


WHY SHOULD YOU PRINT THAT FRAME?

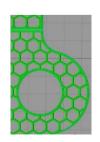








Decentral printing
More material saving by design
Variable Height of bonding line
Less Tooling
Lower level Logistics



3D Tage Nord – Additive Manufacturing @tesa 10/7/2021

ADDITIVE MANUFACTURING @TESA

ARBURG freeformer



Our choice:

Arburg freeformer for highest precision and matching our material.

Our findings:

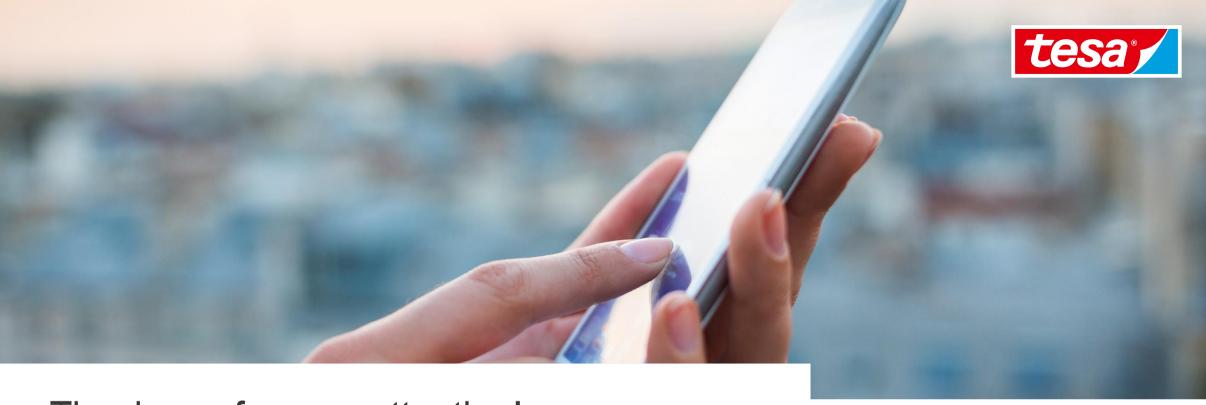
Same performance compared to coating technology.

Features

- Very high bonding strength
- Easy removability even after long bonding time by stretching the adhesive
- Bonding on MSE/LSE substrates
- Temperature stability short:
 90 °C

Immediately stable dimensions after printing.
Assembly direct after printing, low pressure.
Cover of printout for later assembly possible





Thank you for your attention!

Frank Virus / frank.virus@tesa.com
tesa SE

Learn more about our company www.tesa.com













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