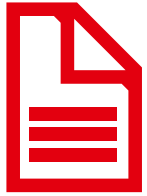




TECHNOMELT®



CASE STUDY

TECHNOMELT® hotmelt adhesive meets stringent requirements for refrigerator door assembly requirements





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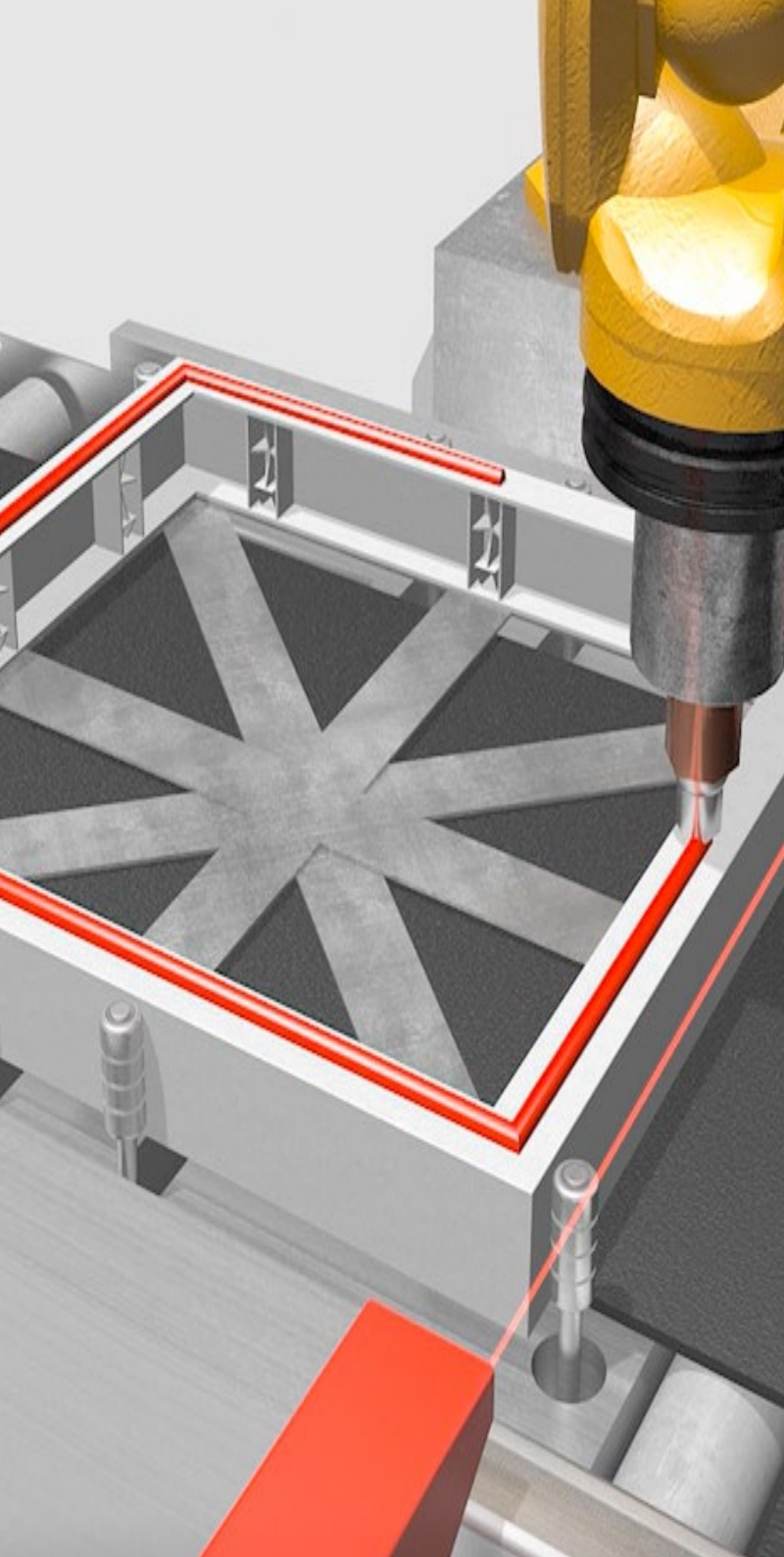
Market Situation & Challenge

- Market demand for modern refrigerator designs particularly models with glass panels is increasing, placing new performance requirements on adhesive technologies.
- There is also an increase in volume design which means a challenge to maintain performance reliability for larger size glass panel bonding.
- At the same time, the appliance industry is facing mounting pressures driven by rising labor costs, the need for accelerated production cycles, and growing expectations for more automated and resource-efficient manufacturing.



Customer Requirements

- An appliance manufacturer sought a solution for refrigerator door assembly that could withstand high thermal resistance for glass bonding and have very good adhesion across multiple substrates.
- In addition, the application was to prevent the panel from shifting during the assembly process and required adhesion strength to increase sharply after assembly to enable moving the assembly within the facility.
- The solution also needs to meet a broad range of production temperature conditions throughout the year.



Henkel Solution

Henkel recommended TECHNOMELT® PUR 9015 optimized for glass-bonding and ink-glass bonding applications and which is available in two versions to meet a wide range of production environment temperatures. The versions enable reliable performance, offer exceptional initial bond strength, and strong holding power.

▪ Process Transformation

By adopting TECHNOMELT® PUR 9015, the customer was able to optimize their production process by removing steps and the use of tape material used for temporarily securing the assembly while being moved. Eliminating tape reduced material waste and production steps, supporting smoother automation and improved throughput.

▪ Cost & Sustainability Benefits

TECHNOMELT® PUR 9015 is reworkable, which allows the parts to be disassembled if needed during the manufacturing process, and reassembled without compromising on the product performance. This reworkability feature enables the manufacturer to avoid scrap costs, which reduces the material waste and environmental impact.

▪ Success Summary

The manufacturer achieved reductions in tape usage, labor savings, and improved resource efficiency per shift. Strong initial bond strength ensured high-temperature performance, and the transition to this new solution enabled a faster, more efficient and sustainable production process.

For more information about Henkel solutions for appliances, please visit us at [Home appliances | Henkel Adhesives](#).

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