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NEW POLYOLEFIN WITH HIGH HEAT RESISTANCE FOR HOT MELT ADHESIVES IN AUTOMOTIVE INTERIOR APPLICATIONS

Synthomer has developed new polyolefin copolymers that exhibit desirable high heat resistance, improved tensile strength and elongation due to its unique structural characteristics.

The new polyolefin copolymers can be readily utilized in high heat resistance applications and generate high performance hot melt adhesives (HMA) with excellent heat resistance and superior cohesive strength. These copolymers could have benefits in multiple application such as woodworking, assembly and automotive.

This presentation focuses on automotive interior application. A model HMA comprising the new polyolefin copolymers exhibited improved peel strength at 90□C and 120□C, superior thermal creep resistance at 110-120□C and excellent resistance against Dead Load and environmental cycle test. Compared to currently available HMA, this superior performance enables future HMA use in additional automotive interior above the belt applications such as door panel, headliner, console, and instrument panels.