

# A-C<sup>®</sup> Polymers for Metallocene Hot Melt Adhesives

Honeywell A-C<sup>®</sup> low-molecular-weight polymers help boost the adhesion performance of metallocene-based hot melt adhesives, particularly in packaging applications.



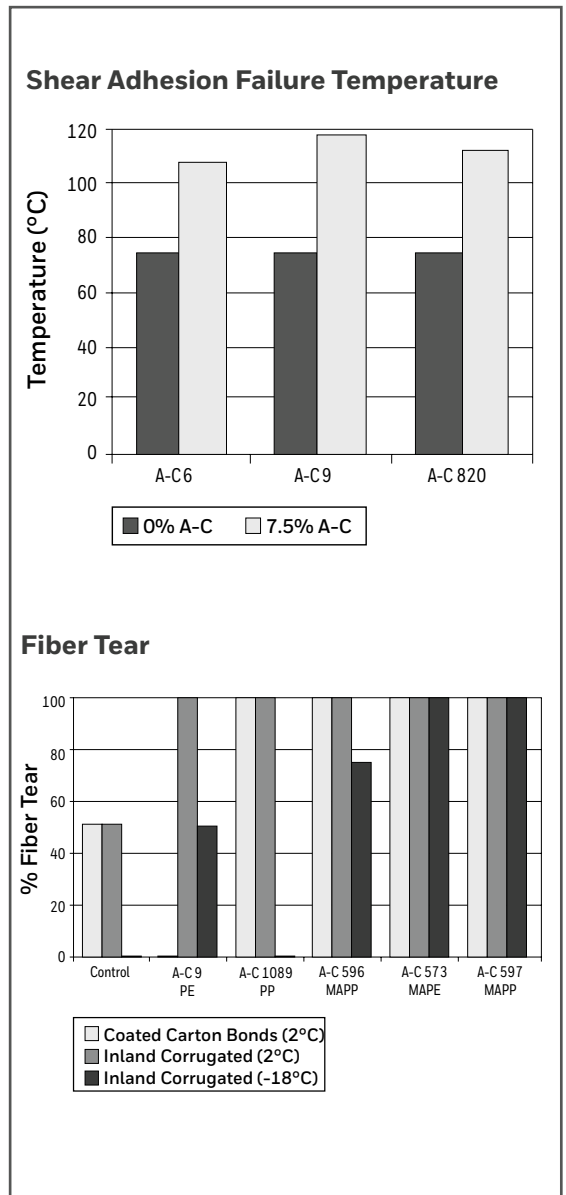
## Increased Heat Resistance

Adhesive performance at high temperatures is critical to ensuring that the quality of the packaging does not degrade over its useful life. The graph shows a significant increase in shear adhesion failure temperature when A-C polymers are added to metallocene hot melt adhesives.

Test Composition (%)	Control	A-C <sup>®</sup>
A-C Low MWPE	0	7.5
HC Tackifier	30	30
Metallocene polymer	40	40
FT Wax	30	22.5

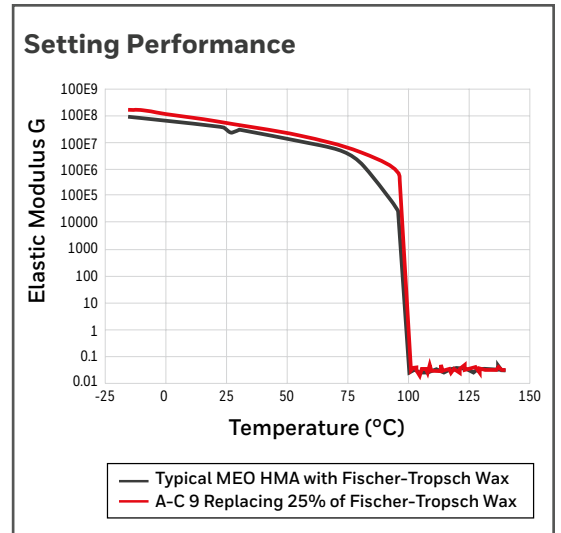
## Increased Adhesion

Adding A-C polymers to metallocene hot melt adhesives will result in increased fiber tear on coated cardboard in packaging applications, even under refrigerator and freezer temperatures.



## Reduced Set Time

Adding A-C® performance polymers to metallocene hot melt adhesive formulations will reduce the set time. Generally, Fischer-Tropsch waxes are used to achieve reduced set times. Using A-C polymers with or without Fischer-Tropsch waxes will provide reduced set times, as well as the additional benefits of increased adhesion and heat resistance.



Type		Benefits	Drop Point (°C)	Hardness (dmm)	Density	Viscosity at 140 °C (cps)
A-C 6	Homopolymer PE	Reduced set time and increased heat resistance	106	4	0.92	375
A-C 9			115	0.5	0.93	450
A-C 820			126	<0.5	0.96	80
A-C 573P	Maleated PE	Increased adhesion	106	4.5	0.92	600
A-C 596P	Maleated PP	Increased adhesion and increased heat resistance	141	<0.5	0.93	150 (190 °C)
A-C 597P	Maleated PP		141	<0.5	0.94	350 (190 °C)

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