

# Technical Data Sheet

## Eastman Aerafin™ 180M Polymer

### Applications

- General assembly hotmelts
- Hygiene adhesives

### Key Attributes

- Compatibility with an array of hydrocarbon tackifying resins
- Excellent thermal stability
- Good adhesion with excellent peel strength
- In formulation, enables a robust adhesive system with a broad processing window and sprayability at temperatures as low as 130°C
- Low color and odor
- Molten version of Aerafin™ 180 polymer
- Reliable global supply
- Requires lower tackifier loading than with most SBC-based formulations

### Product Description

Aerafin™ 180M (molten) polymer is a propylene-based olefin polymer compatible with a range of hydrocarbon tackifying resins and enables spraying or slot applying the finished adhesive at a broad range of temperatures and operating conditions. Aerafin™ 180M polymer is characterized by consistent quality, low color, excellent thermal stability, and low odor. This product ships in molten form unless otherwise specified.

### Typical Properties

Property <sup>a</sup>	Test Method <sup>b</sup>	Typical Value, Units <sup>c</sup>
<b>General</b>		
Viscosity, Brookfield @ 190°C	ASTM D 3236	18000 cP
Ring and Ball Softening Point	ASTM E 28	125 °C (257 °F)
Glass Transition Temperature (T <sub>g</sub> )	ASTM D 3418	-38 °C (-36 °F)
Penetration Hardness	ASTM D 5	25 dmm
Color, Gardner (Molten)		1.0
Physical Form <sup>d</sup>		Molten/solid

<sup>a</sup>Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

<sup>b</sup>Unless noted otherwise, the test method is ASTM.

<sup>c</sup>Units are in SI or US customary units.

<sup>d</sup>Molten available in tank trucks or railcars. Solid may be available in drums.

### Compatibility and Solubility

Broad compatibility with polyolefin polymers, waxes and hydrocarbon tackifying resins.

### Packaging

#### Made to Order Package Type – solid form only

Aerafin™ 180M polymer can be packaged in fiber drums. These are 22.5-inch inside diameter drums, 4 drums per pallet. Drummed material is sold by net weight per pallet, approximately 1,200 lbs per pallet.

Please be aware that there may be additional costs and lead times associated with this package type.

## Storage

Molten material should be handled entirely in closed systems blanketed with an inert gas, such as nitrogen. Molten material can be stored satisfactorily under nitrogen in a steel tank at 350°F to 390°F. Inside storage is recommended for Aerafin™ APOs packaged in drums.

## Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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