

Technical Data Sheet

Eastman Aerafin™ 180 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
- Reliable global supply
- Requires lower tackifier loading than with most SBC-based formulations

Product Description

Aerafin™ 180 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™ 180 polymer is characterized by consistent quality, low color, excellent thermal stability, and low odor.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
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 _g)	ASTM D 3418	-38 °C (-36 °F)
Penetration Hardness	ASTM D 5	25 dmm
Color, Gardner (Molten)		1.0
Physical Form		Pellets

^aUnless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^bUnless noted otherwise, the test method is ASTM.

^cUnits are in SI or US customary units.

Compatibility and Solubility

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

Packaging

Standard Package Type: Aerafin™ 180 polymer is available in bags (50-lb net weight), 2,250-lb net weight per pallet. Bags are made of Polypropylene.

Pellets are coated with polyethylene to prevent blocking.

Storage

Due to the thermoplastic behavior, pelletized material may fuse, block or lump. This can be accelerated under any of the following conditions: 1) above ambient temperature, 2) prolonged storage, 3) pressure, e.g., stacking pallets, or a combination of these conditions.

For improved handling, we therefore recommend storing the material in a temperature-controlled area, be careful with stacking material or applying pressure and preventing prolonged storage.

It should be noted that lumping does not have a negative impact on the product specifications. Due to the nature of the product, claims regarding lumping cannot be accepted.

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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