EASTMAN

# Technical Data Sheet

## Eastoflex™ E1060 Amorphous Polyolefin

## Applications

- Adhesives/sealants-b&c
- Asphalt
- Automotive protective coatings
- Carpet construction
- Case & carton sealing closings
- Film modification
- Labels non food contact
- Lubricants
- Packaging components non food contact
- Packaging tape
- Paints & coatings
- Polymer modification
- Road markings
- Roofing ingredients
- Specialty tape
- Tape non food contact
- Wax ingredients
- Wire/cable

## Key Attributes

- Broad compatibility with numerous elastomers, polymers, and other tackifying resins
- Broad temperature service range
- Excellent thermal and UV stability
- Excellent water and moisture resistance
- Low color
- Low odor

## Product Description

Eastoflex™ Amorphous Polyolefins (APOs) are characteristically saturated, low molecular weight, propylene-based olefin polymers. These products are inherently soft, tacky, and flexible, having a broad compatibility with numerous elastomers, polymers, and tackifying resins. Eastoflex™ APOs are characterized by consistent quality, low odor, good heat stability, and low color. Eastoflex™ E1060 is a copolymer of propylene and ethylene, having a melt viscosity of 6,000 mPa·s at 190°C.

## Typical Properties

| Property[a] | Test Method[b] | Typical Value, Units[c] |
|---|---|---|
| **General** | | |
| Viscosity, Brookfield[e] | ASTM D 3236 | 6000 cP |
| Ring and Ball Softening Point | ASTM E 28 | 135 °C (275 °F) |
| Glass Transition Temperature ($T_g$) | ASTM D 3418 | -20 °C (-4 °F) |
| Penetration Hardness | ASTM D 5 | 40 dmm |
| Color, Gardner | | |
| Molten | | 1.0 |
| Physical Form[d] | | Molten/Solid |

[a] *Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.*
[b] *Unless noted otherwise, the test method is ASTM.*
[c] *Units are in SI or US customary units.*
[d] *Molten available in tank trucks or railcars. Solid may be available in cylinders or drums.*
[e] *Viscosity, Brookfield @ 190°C*

## 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.

# Compatibility and Solubility

Broad compatibility with numerous elastomers, polymers and tackifying resins. Eastoflex™ APOs have shown to be compatible with the following materials: aliphatic tackifying resins, asphalt, butyl rubber, hydrogenated tackifying resins, low density polyethylene, mineral oil, natural rubber, polybutene, polybutlyene, polypropylene, polyterpene tackifying resins, and SEBS block copolymers.

# Packaging

**Made to Order Package Types:**
Eastoflex™ E1060 can be packaged in 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 lb per pallet.

Eastoflex™ E1060 can be supplied in solid form in cylinders, approximately 50-lb (22.7-kg) in weight. Cylinders are strippable fiberboard containers 13 in. (33 cm) in diameter x 14 in. (36 cm) tall and sold by net pallet weight, approximately 1,200-lb per pallet.

Eastoflex™ E1060 is available for blending with other APOs.

Please be aware that there are additional costs and lead times associated with the made to order package types.

# 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 Eastoflex™ APOs packaged in drums or cylinders.

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