

Technical Data Sheet

Eastoflex™ M1020 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™ M1020 is a blend of propylene homopolymer and copolymers of propylene and ethylene. The resulting blend has a melt viscosity of 2,000 mPa·s at 190°C.

Typical Properties

| Property ^a | Test Method ^b | Typical Value, Units ^c |
|------------------------------------------------|--------------------------|-----------------------------------|
| General | | |
| Viscosity, Brookfield ^e | ASTM D 3236 | 2000 cP |
| Ring and Ball Softening Point | ASTM E 28 | 150 °C (302 °F) |
| Glass Transition Temperature (T _g) | ASTM D 3418 | -21 °C (-6 °F) |
| Penetration Hardness | ASTM D 5 | 35 dmm |
| Color, Gardner | | |
| Molten | | 1.0 |
| Physical Form ^d | | Molten/Solid |

^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.

^dMolten available in tank trucks or railcars. Solid may be available in cylinders or drums.

^eViscosity, 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, polybutylene, polypropylene, polyterpene tackifying resins, and SEBS block copolymers.

Packaging

Made to Order Package Types:

Eastoflex™ M1020 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™ M1020 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.

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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