

Technical Data Sheet

Eastoflex™ E1045 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 with 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™ E1045 is a copolymer of propylene and ethylene, having a melt viscosity of 4,500 mPa·s at 190°C.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
Viscosity, Brookfield ^e	ASTM D 3236	4500 cP
Ring and Ball Softening Point	ASTM E 28	135 °C (275 °F)
Glass Transition Temperature (T _g)	ASTM D 3418	-22 °C (-8 °F)
Penetration Hardness	ASTM D 5	40 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

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™ E1045 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™ E1045 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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