EASTMAN

Technical Data Sheet

Eastoflex™ M1030PL-1 Amorphous Polyolefin

Applications

- Adhesives/sealants-b&c
- Asphalt
- Automotive protective coatings
- Carpet construction
- Case & carton sealing closings
- Film modification
- Hygiene adhesives
- 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
- Convenient product form
- 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™ M1030PL-1 is a blend of propylene homopolymer and copolymers of propylene and ethylene, pelletized and coated with a low-density polyethylene powder. The resulting blend has a melt viscosity of 3,000 mPa·s at 190°C.

Typical Properties

Property[a]	Test Method[b]	Typical Value, Units[c]
General		
Viscosity, Brookfield[d]	ASTM D 3236	3000 cP
Ring and Ball Softening Point	ASTM E 28	155 °C (311 °F)
Glass Transition Temperature (T_g)	ASTM D 3418	-12 °C (10 °F)
Penetration Hardness	ASTM D 5	20 dmm
Color, Gardner		
Molten		1.0
Physical Form		Pellets

[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] *Viscosity, 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, polybutlyene, polypropylene, polyterpene tackifying resins, and SEBS block copolymers.

Packaging

Standard Package Type:
Eastoflex™ M1030PL-1 is available in bags (50-lb net weight), 2,250-lb net weight per pallet. Bags are made of Polypropylene.

Pellets in a box (50-lb net weight), 900-lb net weight per pallet. Boxes are lined with a low-density polyethylene liner.

Pellets are coated with low-density polyethylene to prevent blocking.

Storage

Due to the thermoplastic behavior, pastillated and flaked resins 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. This is particularly applicable for low softening point resin grades.

In order to maintain the flake or pastille shape, 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.

Resins are prone to gradual oxidation, some more so than others. This could result in darkening and/or it could have an adverse effect on the solubility of the resin in organic solvents or on its compatibility with polymers. Accordingly, it is recommended that strict control of inventory be observed at all times, taking care that the oldest material is used first.

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