EASTMAN

Technical Data Sheet

Eastoflex™ E1015PL-1 Amorphous Polyolefin

Applications

- Automotive
- Tape non food contact
- Wax ingredients

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™ E1015PL-1 is a copolymer of propylene and ethylene, pelletized and coated with a low-density polyethylene powder, having a melt viscosity of 1,500 mPa·s at 190°C.

Typical Properties

Property[a]	Test Method[b]	Typical Value, Units[c]
General		
Viscosity, Brookfield[d]	ASTM D 3236	1500 cP
Ring and Ball Softening Point	ASTM E 28	130 °C (266 °F)
Glass Transition Temperature (T_g)	ASTM D 3418	-38 °C (-36 °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*

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 polyolefin polymers, waxes and hydrocarbon tackifying resins.

Packaging

Standard Package Type: Eastoflex™ E1015PL-1 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.

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