

Eastoflex™ E1045PL

Amorphous Polyolefin



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, excellent heat stability, and low color. Eastoflex™ E1045PL is a copolymer of propylene and ethylene, pelletized and coated with a polypropylene powder. It has a melt viscosity of 4,500 mPa·s at 190°C.

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

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

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Property	Typical Value	Unit	Method ¹
Ring and Ball Softening Point	140	°C	ASTM E 28, RBSP of pellet coating on formulas ending in "PL" is 163°C. Pellet coating typically 1.5% to 2% by weight
Gardner Color, Molten	1.0		
Penetration Hardness	40	dmm	ASTM D 5
Glass Transition Temperature, Tg	-22	°C	ASTM D 3418
Melt Viscosity at 190°C	4500	cP	ASTM D 3236, Brookfield
Physical Form	Pellets		

¹ internal method based upon the specified norm

Applications

Caulks and Sealants, Asphalt and Road Construction, Floor polish, Carpet, Additives, Correction fluids, Labels, Tapes, Other coatings, Metal coatings, Waterproofings, Speciality tapes, Other adhesives

Compatibility and Solubility

Broad compatibility with numerous elastomers, polymers and tackifying resins. Eastoflex™ APOs have shown compatibility 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

Eastoflex™ E1045PL is available in bags of 50-lb net weight (22.7 kg). Pallet of bags of 2,250-lb net weight (1020.6 kg). Bags are made of polypropylene.

Pellets are coated with polypropylene to minimize 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

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applying pressure and preventing prolonged storage. It is recommended that control of inventory be observed at all times, taking care that the oldest material is used first.

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.

Comments

Properties reported here are typical values. Synthomer makes no representation that the material in any particular shipment will conform exactly to the values given.