TECHNICAL DATA SHEET

Regalflex™ E1016 Amorphous Polyolefin

Regalflex™ 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. Regalflex™ APOs are characterized by consistent quality, low odor, good heat stability, and low color. Regalflex™ E1016 is a copolymer of propylene and ethylene, having a melt viscosity of 1600 mPa·s at 190°C.

- 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

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	135	°C	ASTM E 28
Gardner Color, Molten	1.0		
Penetration Hardness	50	dmm	ASTM D 5
Glass Transition Temperature, Tg	-25	°C	ASTM D 3418
Melt Viscosity at 190°C	1600	cP	ASTM D 3236, Brookfield
Physical Form	Molten/Solid		

[1] internal method based upon the specified norm

Applications

Caulks and Sealants, Asphalt and Road Construction, Automotive, Carpet, Packaging, Film Modification, Hygiene Adhesives, Labels, Tapes, Other adhesives , Plastic Modification, Roofing, Specialty Tapes, Wax Modification, Wire and cable

Compatibility and Solubility

Broad compatibility with numerous elastomers, polymers and tackifying resins. Regalflex™ 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

Regalflex™ E1016 is available in tank trucks or railcars.

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.

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.