TECHNICAL DATA SHEET

Regalflex™ M1018 Amorphous Polyolefin

Regalflex™ 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. Regalflex™ APOs are characterized by consistent quality, low odor, good heat stability, and low color. Regalflex™ M1018 is a blend of propylene homopolymer and copolymers of propylene and ethylene. The resulting blend has a melt viscosity of 1,800 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

eMail: Adhesive.Technologies@Synthomer.com

Property	Typical Value	Unit	Method[1]
Ring and Ball Softening Point	155	°C	ASTM E 28
Gardner Color, Molten	1.0		
Penetration Hardness	25	dmm	ASTM D 5
Glass Transition Temperature, Tg	-15	°C	ASTM D 3418
Melt Viscosity at 190°C	1800	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, Carpet, Labels, Tapes, Other coatings, Speciality tapes, Other adhesives , Automotive, Packaging, Film Modification, Plastic Modification, Roadmarking, Roofing, 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™ M1018 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.