

# Regalflex™ M1025 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™ M1025 is a blend of propylene homopolymer and copolymers of propylene and ethylene. The resulting blend has a melt viscosity of 2,500 mPa·s at 190°C.

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

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- 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

Property	Typical Value	Unit	Method <sup>1</sup>
Ring and Ball Softening Point	155	°C	ASTM E 28
Gardner Color, Molten	1.0		
Penetration Hardness	20	dmm	ASTM D 5
Glass Transition Temperature, T <sub>g</sub>	-14	°C	ASTM D 3418
Melt Viscosity at 190°C	2500	cP	ASTM D 3236, Brookfield
Physical Form	Molten/Solid		

<sup>1</sup> internal method based upon the specified norm

## Applications

Caulks and Sealants, Asphalt and Road Construction, Carpet, Labels, Tapes, Other coatings, Automotive, Packaging, Film Modification, Plastic Modification, Roadmarking, 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, polybutylene, polypropylene, polyterpene tackifying resins, and SEBS block copolymers.

## Packaging

Regalflex™ M1025 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.