

Polybilt™ Bitumen Modifier 106

Low Density Polyethylene Resin

Product Description

Polybilt 106 is compatible with a large variety of bitumens. For optimum results a preliminary study is recommended to determine the base bitumen grade and optimum Polybilt 106 content to achieve the desired end-use properties. - Raises binder softening point and decreases penetration. - Substantially improves resistance to rutting. - Substantially improves resistance to jet fuels. - Improves binder low temperature flexibility and cohesion. Processing Conditions: Polybilt 106 pellets are free flowing, therefore, well suited for use in automated feeding and metering systems. Polybilt 106 can be blended easily using conventional equipment. Blending time will depend on the shear rate of the equipment used. Polybilt 106 can be pre-blended with bitumen or poured directly into the pugmill. Recommended blending temperature is 180 - 190°C (356 - 374°F).

General

Additive	▪ Thermal Stabilizer: Yes
Applications	▪ Bitumen modifier
Form(s)	▪ Pellets

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.949 g/cm ³	0.949 g/cm ³	ExxonMobil Method
Melt Index ²	1.8 g/10 min	1.8 g/10 min	ExxonMobil Method
Vinyl Acetate Content	24.0 wt%	24.0 wt%	ExxonMobil Method
Peak Melting Temperature	171 °F	77 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	122 °F	50 °C	ASTM D1525

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

² Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.