

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

Availability ¹	▪ Africa & Middle East	▪ Europe
Additive	▪ Thermal Stabilizer: Yes	
Applications	▪ Bitumen modifier	
Form(s)	▪ Pellets	
Revision Date	▪ 05/01/2014	

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.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

©2015 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Chemical" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.