

HARWICK STANDARD
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ISO 9000
REGISTERED

STAN-WAX 1012

Stan-Wax 1012 is a powdered form of a low-density, low molecular weight polyethylene. This product has a low softening point, 104°C (219°F) which makes it particularly useful as a processing aid in rubber compounds where it functions as an internal lubricant and mold release agent.

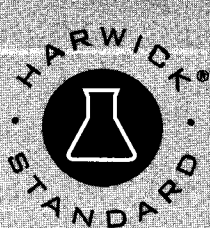
Addition of 2-5 phr of Stan-Wax 1012 reduces the tendency of the compounds to adhere to mixing and molding equipment, provides faster dispersion and mixing of components, improves mold flow, and imparts improved finish to molded parts. This product is compatible with natural rubber and most synthetic elastomers including SBR, nitrile, butyl, and EPDM.

TYPICAL PROPERTIES

Appearance	White Powder
Ring & Ball Softening Point	104°C (219°F)
Specific Gravity	.906
Penetration Hardness (100g/5 sec./25°C [Tenths of mml])	2.5 - 4.0
Acid Number	0.05
Viscosity at 150°C. cp (#3 Spindle, 6 rpm)	9400
Molecular Weight. approximate	8000

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7/28/98



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STAN-WAX 1412

Stan-Wax 1412 is a powdered form of a low density, high molecular weight polyethylene. This product has a high enough molecular weight to provide some reinforcing properties to rubber compounds. Since it is polyethylene, it also imparts good release characteristics and smooth appearance to cured products. Normal usage in the 5 - 10 phr range imparts these properties.

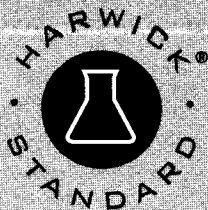
Stan-Wax 1412 is compatible with natural rubber and most synthetic elastomers including SBR, nitrile, butyl, and EPDM.

TYPICAL PROPERTIES

Appearance	White Powder
Vicat Softening Point	90°C
Specific Gravity	.918
Acid Number	< 0.05
Viscosity at 190°C cp (#3 Spindle, 6 rpm)	5,000,000
Molecular Weight, approximate	23,000

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8/6/98



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STAN-WAX GKD

Stan-Wax GKD is a low molecular weight polyethylene that is supplied to the rubber industry as a low-cost processing aid. It is used as an internal process aid when compounding general purpose SBR, NR, EPDM and specialty types of polymers including CR, CSPE, and CPE. This product can be used at a typical level of 3-5 phr to impart good release characteristics and provide smooth appearance to cured rubber products.

TYPICAL PROPERTIES

Appearance	White Pellet
Softening Point, Ring & Ball, °C	104
Viscosity at 125°C, cps	475
Specific Gravity	0.91
Molecular Weight, Approximate	2800

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