

## PRODUCT INFORMATION SERIES



March 2018

### YulexPure® 100% FSC, Dry Natural Rubber

#### Specifications:

YulexPure® is a plant-based polymer backbone, cis, 1-4, polyisoprene (GRAS material) in a high purity form. It can be formulated with or without antioxidants, additives, fillers or colorants. YulexPure® brand of 100% FSC dry natural rubber materials contain extremely low non-rubber content with color values (in accordance to ASTM D2227, Grade L) ranging from off white to caramel, and have consistent lot-to-lot values when compared to commercial hevea cup lump, estate grades, L-Grades and technical specified forms of dry rubber. YulexPure® dry natural rubber is an ultra-pure polymer system that can be specially ordered as a pre-compound:

- YulexPure® can be ordered in special Pre-compounded blends for a variety of production requirements, for example, carbon black, antioxidants, environmental protectors, fillers, and other additives as required by the customer. Mooney viscosity is also lowered during the compounding stage, which can further assist in reducing time for producers.

- YulexPure® is also offered in a pre-compounded formula specifically to produce Yulex® Closed Cell Foams for wetsuit, footwear and other product types. This compound comes with carbon black and process oils. Yulex Pure® is also offered in blended versions for unique and demanding applications and is blended with EPDM. The customer finishes the compounding with any additional fillers and additives, then curing and blowing agents are mixed in prior to extruding, forming and cure.

Typical compounding techniques and equipment is used to process Yulex Pure® and readily accepts common compounding additives in addition to curing packaging such as sulfur vulcanization and peroxide cure. A slight adjustment to a producer's standard formula may be required. Many producers find that the amount of curing additives, accelerators and color stabilizers can be reduced when using YulexPure®.

**Storage:** YulexPure® dry natural rubber should be stored in the original sealed bags at 20°C ± 5°C (59--77°F), out of direct sunlight and avoid exposure to high humidity (≥ 40% relative humidity) and high temperature conditions (≥ 120°F).

#### Physical Properties:

Specification	Typical Values
Ash	0.05% - .05%
Nonrubber	<0.05%
Dirt	Non Detect to 0.01%
Total Protein Content	Non detect <sup>1</sup>
Color	Cream, Off White and Caramel <sup>2</sup>
Odor	None
Mooney	<70 (+-5) <sup>3</sup>

1. Per ASTM test methods for dry natural rubber. D-5712, Modified Lowry Method

2. Color varies by geographic location, processing methods and selected grades.

3. Mooney number depends on YulexTechnical grade selection, pre-compounding, and other treatments or processing techniques and is used as reference only. Contact Yulex for more information.