# Colour dispersion aid for masterbatches



**PRODUCT NAME** 

Einar® 103

**APPLICATION** 

Colour masterbatches for PE, PP, PET, PVC, and PA

**Palsgaard**®

# The plant-based, food-grade solution for PE, PP, PET, PVC, and PA colour masterbatches

**Einar**® **103** is an innovative plant-based and food-grade dispersing aid which ensures optimum distribution of pigments, fillers and other additives, delivering outstanding performance when compared to market-standard products.

#### **KEY FEATURES**

- Highly effective plant-based replacement of petrol-based waxes
- Speciality polyglycerol ester based on fatty acids of vegetable origin
- Custom-designed for colour masterbatches
- Suitable for a variety of polymers, including PE, PP, PVC, PET, and PA
- Worldwide regulatory approval for food-contact applications

# **KEY BENEFITS**

- Superior pigment dispersion
- ✓ Strong cost-in-use
- More reliable and stable production that will keep downtime at a minimum
- Less pigment needed to obtain true colours
- No worries when used in food-contact applications
- Consultancy and technical evaluations available from our applications team

#### **EINAR® PLANT-BASED, FOOD-GRADE POLYMER ADDITIVES**

#### Einar® 103 for colour masterbatches

**Einar® 103** is a liquid plant-based dispersing additive designed to deliver outstanding dispersing performance for pigments in polyolefin products as well as PET, PVC and PA.

**Einar® 103** offers a unique opportunity for cost savings. Its effectiveness in dispersing pigments will result in lower pigment loadings needed to obtain the desired colour strength. The measurable result is optimised wetting, higher colour yield, and reduced filter pressure.

With the efficiency of **Einar**® **103**, it is possible to increase the pigment concentrations in a masterbatch, providing additional cost benefits. **Einar**® **103** also adds a lubricating effect, resulting in better process control, and higher extruder throughput.

## Tested to perfection

Tests of the performance of **Einar® 103** have shown the superior performance of this dispersing aid when measured against industry-standard waxes:

- By substituting PE wax with Einar® 103, the pigment concentration can easily be reduced by 25% while achieving a better colour strength and lowered FPV
- By replacing just 1% PE wax with Einar® 103, a significant increase in colour strength and decrease in filter pressure can be observed

### Einar® 103 product details

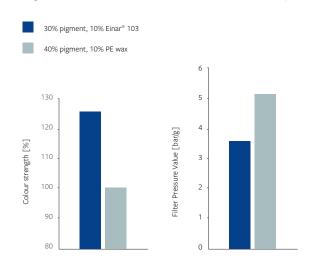
Physical/chemical properties:	polyglycerol ester acid value, max.	
	colour	3%
	form at 25°C	yellowish
		viscous liquid
Storage	Should be stored in a cool and dry place in	
conditions:	tightly closed packaging	
Packaging:	200 kg / 440.9 lb net in steel drum and 975 kg / 2149.5 lb net in intermediate bulk	
	container (IBC)	
Product form:	Einar® 103 comes in liquid form	
Total shelf-life:	min. 24 months	

#### Guidelines for use

**Einar**® 103 should be incorporated into the polymer matrix via a colour masterbatch. As a liquid dispersing aid, **Einar**® 103 will coat the pigment and enable a uniform and homogeneous dispersion of individual pigment particles in the polymer.

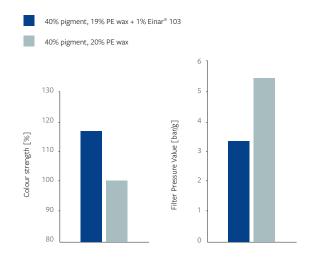
#### **DISPERSION WITH EINAR® 103**

Pigment Blue 15:3 in LLDPE measured with a 20 µm filter



#### **BOOST YOUR PE WAX WITH EINAR® 103**

40% Pigment Blue 15:3 in LLDPE measured with a 20  $\mu m$  filter



# Sustainable solutions for the polymers industry

# Health and Safety

**Einar®** is identified as non-toxic and is not expected to cause irritation to the skin, eyes or lungs. Detailed MSDS is available on request.

# Legal status and other regulatory information

### Einar® 103

- is a dual use additive for use in food and polymers
- complies with the purity requirements of FAO/WHO regarding food additives (JECFA)
- is manufactured in accordance with EU regulations and under hygienic conditions
- may be used in plastic materials and articles intended to come into contact with foodstuffs in accordance with Regulation (EC) No. 10/2011 on plastic materials and articles intended to come into contact with food
- is GRAS according to GRAS notice Nos. 000009, 000179, 000266, and 000466, and may in accordance with FDA 21 CFR 174.5 be used as components of articles intended for contact with food
- Kosher & Halal certificates and REACH registration available on request

To find out more or to order samples of Einar® 103, visit polymers.palsgaard.com or contact us via polymers@palsgaard.com



