



# Polyethylene VS4480

## High Density Polyethylene for Stretched Tape

### Description

**VS4480** is a medium molecular weight, high density polyethylene for stretch tape production, based on blown film.

### Applications

**VS4480** gives strong and flexible tapes with low fibrillation tendency suitable for twines, ropes, raschel knitted and woven fabrics.

### Physical Properties

	Typical Value*	Unit	Test Method
Density	948	kg/m <sup>3</sup>	ISO 1183D/ISO 1872-2B
Melt Flow Rate (190°C/2.16 kg)	0.50	g/10 min	ISO 1133

- \* Data should not be used for specification work.

### Processing Guidelines

**VS4480** should be processed on HD-extruders in order to obtain optimal performance in extrusion and subsequently good mechanical properties of the film.

Recommended extrusion conditions:

Temperature:	190 - 230°C
Blow Up Ratio	1.1 - 1.5

### Storage and handling

**VS4480** should be stored in dry conditions at temperatures below 50°C and protected from UV light.

Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of the product.

### Safety

**VS4480** is not classified as dangerous preparation.

Dust and fines from the product carry a risk of dust explosion. All equipment should be properly earthed. Inhalation of dust should be avoided as it may cause irritation of the respiratory system. Small amounts of fumes are generated during processing of the product. Proper ventilation is therefore required.

**Borealis A/S**  
 Parallevej 16  
 DK-2800 Kongens Lyngby (Denmark)  
 Telephone: +45 45 96 60 00  
 Fax : +45 45 96 61 23  
 www.borealisgroup.com



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## Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

A Safety Data Sheet is available on request. Please contact your Borealis representative for more details on various aspects of safety, recovery and disposal of the product.

## Related Documents

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

Recovery and Disposal of Polyolefins  
Information on Emissions from Processing and Fires  
Safety Data Sheet, SDS  
Environmental Fact Sheet

Liability Statements on:

- Compliance to Food Contact Regulations
- Compliance to Regulations on Medical Uses
- Heavy Metals

## Disclaimer

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