



# Polyethylene HE1973

High Density Polyethylene Powder for Sheet Application

## Description

**HE1973** is a high molecular weight (HMW), high-density polyethylene powder for sheet applications. It offers good impact strength and high stiffness.

It is delivered in powder form with good particle size distribution and bright white colour. The material is stabilised for transport and storage.

## Applications

**HE1973** is suitable for compression moulding and extrusion of sheets.

## Additives

**HE1973** is stabilized for transport and storage only.

## Physical Properties

Property	Typical Value	Test Method
	Data should not be used for specification work	
Density	956 kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (190 °C/21,6 kg)	3,3 g/10min	ISO 1133
Tensile Modulus	1.200 MPa	ISO 527-2
Tensile Stress at Yield (50 mm/min)	28 MPa	ISO 527-2
Elongation at Break	> 600 %	ISO 527-2
Charpy Impact Strength, notched (-20 °C)	65 kJ/m <sup>2</sup>	ISO 179/1eA
Hardness, Shore D (15 s)	63	ISO 868
Nominal Viscosity Average Molecular Weight	> 300000 g/mol	ASTM D 4020

## Processing Techniques

The actual extrusion or compression moulding conditions will depend on the type of equipment used. They will also depend on size and thickness of the sheet produced.

Specific recommendations for processing conditions can be determined only when the application and type of equipment are known. Please contact your local Borealis representative for such particulars.

## Storage

**HE1973** 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 this product.

## Safety

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety of the product. For more information, contact your Borealis representative.



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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.

## 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" / "Product safety information sheet"  
Statement on chemicals, regulations and standards

## Issuer:

Marketing Pipe / Thierry Pezard  
Product Management / Christian Merz

## Disclaimer

**The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.**

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

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