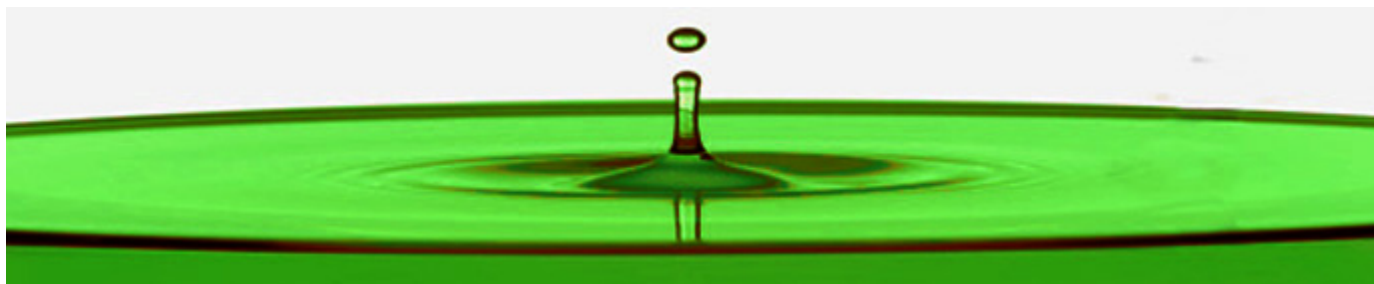


# Boltorn<sup>®</sup> H20

## Development product



### Description

- Boltorn<sup>®</sup> H20 is a dendritic polymer with theoretically 16 primary hydroxyl groups and a molecular weight of 1747 g/mole.
- It has a highly branched polyester structure.
- Boltorn<sup>®</sup> H20 is an amorphous solid at room temperature.
- It is delivered in pellets

### Applications

- Coatings
- Plastics
- The dendritic structure offers unique possibilities by combining excellent reactivity with low viscosity and enhanced mechanical properties.
- Boltorn<sup>®</sup> H20 is an excellent building block for designing novel products.
- Its ability to promote dense branching of a polymer backbone without crosslinking is highly appreciated in many applications.

### Delivery forms

- Plastic containers 20 kg, 360kg/pallet

### Storage

- Boltorn<sup>®</sup> H20 is hygroscopic and should be handled to prevent moisture absorption.

### Sales specification

Hydroxyl number, mg KOH/g <sup>1</sup>	490-530
Acid number, mg KOH/g <sup>2</sup>	Max. 9

### Typical properties

Molecular weight, $M_w$ , g/mole <sup>3</sup>	2100
Polydispersity, $M_w/M_n$ <sup>3</sup>	1.3
Viscosity (110 °C, 30 s <sup>-1</sup> ), Pas <sup>4</sup>	7
Glass transition temperature, $T_g$ , °C <sup>5</sup>	30

#### Analytical Method

<sup>1</sup> PO 100-9, <sup>2</sup> PO 110-4, <sup>3</sup> PO 137-1, <sup>4</sup> PO 120-3,

<sup>5</sup> DMA Tan  $\delta$  peak (Netzch DMA 242 3-point bending 1 Hz 3 °C/min)

Analytical methods are available on request

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