

# Boltorn™ H311

## Part of your toolbox

### Product Description

Boltorn™ is a range of dendritic polymers with extensive formulation possibilities. The extensive branching improves reactivity, lowers the viscosity and results in balanced mechanical properties.

Boltorn™ H311 is a dendritic polymer polyol with high hydroxyl functionality. It has a highly branched flexible backbone with a large number of primary hydroxyl groups. Boltorn™ H311 has excellent solubility on polyether polyols, glycols and polyalcohols. It contains 10 % water and is a viscous liquid at room temperature.

Boltorn™ H311 is an effective load builder for High Firmness molded foam and High Resilience (HR) slab stock foam. It can replace copolymer polyols of styrene acrylonitrile (SAN) type or conventional type crosslinkers. And is typically 2 times as efficient as SAN-type polymer polyols in providing compressive loads at given solids level. The higher efficiency of Boltorn™ H311 results in foam formulations with lower total solids levels and increases foam stability and allows for high firmness at low density.

### Segment Applications

High Firmness molded foam and High Resilience (HR) slab stock foam

### Delivery Forms

Containers (IBC) 1100 kg



# Boltorn™ H311

Part of your toolbox

## Sales Specification

Characteristics	Unit	Specification	Analytical Method <sup>1</sup>
Hydroxyl Number	mg KOH/g	230 – 260	PO 100-9
Water content	%	9.5 – 10.5	PO 109-2
pH		6 – 7	PO 110-2

1. Analytical methods are available on request

## General Characteristics

Characteristics	Unit	Typical Value <sup>1</sup>	Comment
Molecular weight, Mw	g/mol	5700	Water free product
Viscosity (23 °C, 30 s <sup>-1</sup> )	Pas	30	

1. Typical values are for information only and not part of sales specification

## Handling and Storage

Boltorn™ H311 should be stored in sealed containers at ambient temperature, in a dry area protected from direct sunlight and the elements. The maximum storage temperature has not been determined, but when stored as recommended, temperatures up to 35°C should present no problems. When drums are opened, and the product is exposed to air, moisture can be absorbed by the product. Sealing the drum under a dry gas (Nitrogen, Argon or dried air) blanket can substantially reduce this tendency.

HS No.: 3907 99

Effective date: November 16, 2020

USERS ARE ADVISED TO MAKE THEIR OWN INDEPENDENT DETERMINATION OF THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE. EXCEPT FOR WHAT IS STATED IN PERSTORP'S GENERAL CONDITIONS OF SALE OR SEPARATELY IN A WRITTEN CONTRACT WITH PERSTORP, NO INFORMATION PROVIDED IN THIS DATA SHEET CONSTITUTES A WARRANTY (EXPRESS OR IMPLIED) BY PERSTORP, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.