



# Ahlstrom-Munksjö **HighFlow** Wind Energy

**Ahlstrom-Munksjö is one of the leading companies involved with composite development, supporting several different industries to achieve effective solutions using lighter weight materials**

Ahlstrom-Munksjö HighFlow is an innovative fabric which optimizes resin infusion, enabling designers and manufacturers to deliver better lightweight turbine blades.

## Benefits

- ✔ Delivers complete fabric wet out, minimizing air voids
- ✔ Maximises resin infusion, with process speeds **up to 300% faster** for the entire laminate construction
- ✔ Customises infusion speed, without any restrictions to product construction and weight
- ✔ Reduces total cost of ownership **by up to 15%**

**HIGHFLOW UD FABRICS**

### HighFlow UD 1350 fabric (High Modulus fiber)

GRADE CODE	BASIS WEIGHT (g/m <sup>2</sup> )	RESIN FLOW SPEED
HighFlow E1 UD1350 HM glass fiber	1400	Fast
HighFlow E2 UD1350 HM glass fiber	1400	Faster

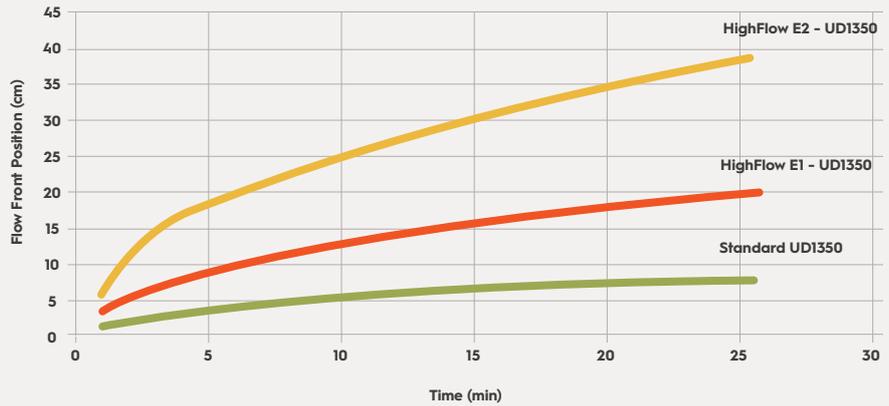
### HighFlow UD 1350 fabric (E-glass fiber)

GRADE CODE	BASIS WEIGHT (g/m <sup>2</sup> )	RESIN FLOW SPEED
HighFlow E1 UD1350 E-glass fiber	1400	Fast
HighFlow E2 UD1350 E-glass fiber	1400	Faster

### HighFlow UD 2000 fabric (High Modulus fiber)

GRADE CODE	BASIS WEIGHT (g/m <sup>2</sup> )	RESIN FLOW SPEED
HighFlow E1 UD2000 HM glass fiber	2065	Fast
HighFlow E2 UD2000 HM glass fiber	2065	Faster

#### UD Reinforcement Resin Flow in 90°-direction

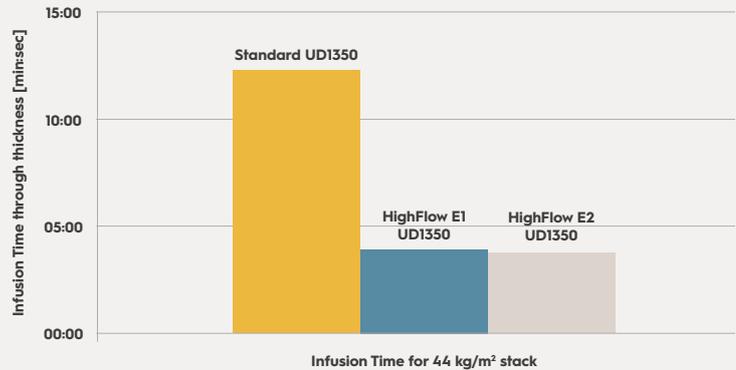


Resin Hexion: RIMR135i/RIMH137, Viscosity: 300 MPas, Test Set-up: 5 x UD 1350g/m<sup>2</sup>

PRODUCT	TIME IN MINUTES
Standard UD1350	12:20
HighFlow E1 UD1350	04:01
HighFlow E2 UD1350	03:55

#### Z-direction Flow through the thickness

Test Setup: 30 x UD1350 (44 kg/m<sup>2</sup>)  
Resin: Hexion RIMR135i/RIMH137



UD is available with E-glass fiber, High Modulus fiber, and Carbon fiber.

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