

(2020-06)

## AlmaBlend 600

Biodegradable and compostable polymer for blown film extrusion, containing 95 % of renewable resources.

**Product description** AB600 is a compound over 60% based on compostable and biobased raw materials (produced from GMO-free feedstocks), a compostable polymer of natural origin (UNI EN 13432:2002). AB600 consists of over 95% of renewable resources and inert materials, representing a valid alternative to petrochemical polymers.

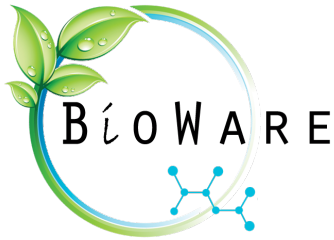
**Processing informations & recommendations** AB600 is a compound designed and manufactured for blown film extrusion. Recommended processing temperatures are:

- Feed Zone: 150 °C – 160 °C;
- Plastification-Conveying Zone: 190 °C – 210 °C;
- Molding Zone: 225 °C.

Pre-drying at 50° for 3 h is highly recommended.

**Optimal storage conditions** Temperature during storage must not exceed 50 °C. Storage in direct sunlight should be avoided and time in an open bag may not surpass 12 months at room temperature (23 °C).

Physical properties	Method	Typical value
Density	ISO 1183	1,25-1,45 g/cm <sup>3</sup>
MFR	g/10 min (210°C/2.16 Kg)	2 – 20 g/10min
Melting temperature	DSC	172-178° C
Glass Transition Temperature	DSC	59-62° C



Oxygen Permeability, OTR (23°C, 0% RH)	XPERT	3-30 cm <sup>3</sup> /(m <sup>2</sup> day)
Water vapor Permeability, WVTR (23°C, 85% RH)	XPERT	10-30 g/(m <sup>2</sup> day)

Mechanical properties	Method	Typical value
Tensile modulus	ISO 527-1	2210 - 2450 MPa
Elongation at break	ISO 527-1	250 - 450%
Tensile Strength	ISO 527-1	47 MPa
Heat Deflection Temperature (amorphous)	ISO 75	65-70°C
Heat Deflection Temperature (crystalline)	ISO 75	> 90°C
Charpy Impact Strength	ISO 179	4 kJ/m <sup>2</sup>