



Polypropylene HK060AE

Polypropylene Homopolymer

Description

HK060AE is a special low viscosity polypropylene homopolymer compound developed to fit the production of Glass Matt reinforced Thermoplastics. This material is also suitable as base resin for the production of PP-GF composites in the direct LFT compression and injection moulding process as well as in combination with LGF concentrates on the injection moulding process.

This grade is additionally available in an emission optimized version (HK060AE-AR).

Applications

HK060AE has been developed especially for applications like:

Front end carriers
Under body shieldings
Noise shields

Dashboard carriers
Battery supports

Special Features

HK060AE contains a basic conversion and long term heat stabilisation.

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	905 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	125 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.550 MPa	ISO 178
Tensile Strength (50 mm/min)	35 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	91 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	1,0 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	0,9 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	0,8 kJ/m ²	ISO 179/1eA

Values determined on standard injection moulded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

Processing Techniques

The actual conditions will depend on the type of equipment used.

HK060AE is easy to process with standard direct LFT/injection moulding machines. It can also easily be converted in the GMT process. To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 80°C.

Mass temperature	200 - 250 °C	on double belt presses
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Mass temperature

220 - 270 °C

for direct LFT compression or injection
moulding

Mould temperature

30 - 60 °C

Injection speed

Low to medium

Storage

HK060AE 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

The product is not classified as dangerous.

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.

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.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of recovery and disposal of the product.

Regional Availability

Europe

For information on regional availability please contact Borealis Sales Representative.