

POLYETHYLENE

JULY 2008 REV.1 (72538)

MAJORIS AG100E

POLYETHYLENE COMPOUND 10 % GLASS FIBRE REINFORCED

DESCRIPTION

MAJORIS AG100E is a 10% glass fibre reinforced polyethylene high density compound intended for injection moulding and extrusion profiles.

The product is available in black (**MAJORIS AG100E - 8229**) and natural (**MAJORIS AG100E**) but other colours can be provided on request.

APPLICATIONS

MAJORIS AG100E is intended for components which require good impact strength, rigidity, dimensional stability.

Suitable applications are:

- Electrical tool and appliance components
- Miscellaneous automotive technical items
- Profile

PHYSICAL PROPERTIES¹⁾

	Typical Value*	Unit	Test Method
Melt Flow Rate (190°C/5.0 Kg)	0,8	g/10 min	ISO 1133
Density	1000	Kg/m ³	ISO 1183
Mould shrinkage // (2 mm)	1,1	%	-
Mould shrinkage ⊥ (2 mm)	0.9	%	-
Tensile Stress at yield (50 mm/min)	29	MPa	ISO 527-2
Tensile modulus (1 mm)	1400	MPa	ISO 527-2
Flexural Stress at yield (50 mm/min)	39		ISO 178
Flexural modulus (2 mm)	1450	MPa	ISO 178
Charpy impact (notched, +23°C)	21	KJ/m ²	ISO 179/1eA
Charpy impact (unnotched, +23°C)	70	KJ/m ²	ISO 179/1eU
Flammability	HB	-	UL 94

1) Values determined on standard injection moulded specimens (DIN 16770) conditioned at 23°C and 50% relative humidity

* Data should not be used for specification work

PROCESSING

MAJORIS AG100E is easy to process with standard injection moulding machines. Following moulding parameters should be used as guidelines.

Melt temperature: 210°C-250°C
Feed zone temperature: 200°C-220°C
Injection speed: medium
Hold-on pressure: 50 -70 % of the injection pressure
Mould temperature: 30 - 50°C

STORAGE AND HANDLING

MAJORIS AG100E should be stored in dry conditions at temperatures below 50°C and protected from UV-light.

Improper storage can initiate degradation with resulting odour generation and colour changes.

SAFETY

MAJORIS AG100E is not classified as a dangerous preparation.

Dust and fines from the product may give a risk for dust explosion. All equipment should be properly earthed.

Inhalation of dust may irritate the respiratory system and should be avoided.

During processing of the product small amounts of fumes are generated, which require proper ventilation.

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.

A Safety Data Sheet is available on request. Please contact your AD majoris representative for more details on various aspects of safety, recovery and disposal of the product.

The recommendations and data given are based on our experience to date, but no liability can be assumed in connection with their usage.