



PRODUCT INFORMATION

HAIPLEN EP10 G2 BA

Polypropylene copolymer 10% glass fibres reinforced chemically coupled, medium low flow.

ISO short Form ISO 1043: PP-GF10 Pellets

Key Features

- Good impact - stiffness balance
- Designed for injection moulding applications
- Glass fibres reinforced
- Low flow

Availability

- LP: laser printable
- L: UV stabilized
- H: heat stabilized
- D: detergent stabilized
- All colours

Process

- INJECTION MOULDING

Application

- Power tools
- Household
- General purpose applications
- Furniture
- Electronic
- Electrical
- Consumer
- Building
- Automotive

Property	Method	Unit	Value	Condition	State
PHYSICAL					
Density (+23°C)	ISO 1183	g/cm ³	0,97		
Filler content	ISO 3451	%	10	600°C - 1 h	
Mould Shrinkage (Parallel)	Internal method	%	0,6 - 0,8		
Mould Shrinkage (Normal)	Internal method	%	0,5 - 0,7		
Melt Flow Rate (MFR)	ISO 1133	g/10 min	5	230°C - 2,16 kg	

MECHANICAL



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Tensile Modulus	ISO 527-1,2	MPa	2500	Speed 1 mm/min
Elongation at Break	ISO 527-1,2	%	5,5	Speed 50 mm/min
Tensile Break Strength	ISO 527-1,2	MPa	50	Speed 50 mm/min
Flexural Modulus	ISO 178	MPa	2200	Speed 1 mm/min
Flexural Break Strength	ISO 178	MPa	65	Speed 1 mm/min
IZOD Notched Impact	ASTM D256	J/m	75	+23°C

THERMAL

Softening Temperature - 1 kg (VST/A/50)	ISO 306	°C	153
Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	92
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	118

FLAMMABILITY

Flame Behaviour (1,6 mm)	UL94	Class	HB
Oxygen index	ASTM D2863	%	21

INJECTION MOULDING

	Value
Drying Temperature (Desiccant Dryer)	80 - 100°C
Drying Time (Desiccant Dryer)	2 - 4 hours
Suggested Max Moisture	0,2%
Melt Temperature	220 - 250°C
Feed Temperature	50°C
Rear Temperature	200°C
Middle Temperature	220°C
Front Temperature	230°C
Nozzle Temperature	240°C
Mould Temperature	40 - 60°C
Injection Rate	50 - 150 mm/sec
Injection Pressure	60 - 120 MPa
Packing Pressure	30 - 80 MPa
Back Pressure	As low as possible (<0,3 MPa)
Screw Revolving Speed	25 - 50 rpm
Screw Revolving Speed	50 rpm @ Diameter 40 mm



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Screw Revolving Speed	35 rpm @ Diameter 55 mm
Screw Revolving Speed	25 rpm @ Diameter 75 mm
Cushion	5 - 8 mm
Vent Depth	0,05 mm

Notes It is normally not necessary to dry HAIPLN compounds, however should there be surface moisture (condensate) on the moulding compound as a result of incorrect storage, drying process is required. HAIPLN must be stored indoors at a temperature below 40°C avoiding humidity and direct sunlight as well. HAIPLN can be processed on a standard injection moulding unit. A general purpose metering screw is recommended with a zone distribution of 40% feed, 40% transition and 20% metering. When the heating cylinder is completely purged of HAIPLN material the machine may be shut down.