



PRODUCT INFORMATION

**HAIPLEN EP50 T2**

Polypropylene copolymer medium flow 10% talcum filled.

**ISO short Form** ISO 1043: PP-MD10  
Pellets

**Key Features**

- Designed for injection moulding applications
- Good flowability
- Mineral filled

**Availability**

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

**Process**

- INJECTION MOULDING

Property	Method	Unit	Value	Condition	State
<b>PHYSICAL</b>					
Density (+23°C)	ISO 1183	g/cm <sup>3</sup>	0,97		
Filler content	ISO 3451	%	10	600°C - 1h	
Water Absorption (24h / +23°C)	ISO 62	%	0,05		
Mould Shrinkage (Parallel)	Internal method	%	1,2		
Mould Shrinkage (Normal)	Internal method	%	1,2		
Melt Flow Rate (MFR)	ISO 1133	g/10 min	10	230°C - 2,16 kg	
<b>MECHANICAL</b>					
Tensile Yield Strength	ISO 527-1,2	MPa	28	Speed 50 mm/min	
Flexural Modulus	ISO 178	MPa	1500	Speed 1 mm/min	
IZOD Notched Impact	ASTM D256	J/m	50	+23°C	
<b>THERMAL</b>					
Softening Temperature - 1 kg (VST/A/50)	ISO 306	°C	154		
Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	75		
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	65		



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Coefficient of linear thermal expansion (parallel) ISO 11359-1,-2 K<sup>-1</sup> 6X10exp(-5)

### FLAMMABILITY

Flame Behaviour (1,6 mm) UL94 Class HB

### INJECTION MOULDING

	Value
Drying Temperature (Circulating Air Oven)	70 - 80°C
Drying Temperature (Desiccant Dryer)	70 - 80°C
Drying Time (Circulating Air Oven)	2 - 6 hours
Drying Time (Desiccant Dryer)	2 - 4 hours
Suggested Max Moisture	< 0,2 %
Suggested Max Re grind	< 15%
Melt Temperature	200 - 240°C
Feed Temperature	50°C
Rear Temperature	190°C
Middle Temperature	210°C
Front Temperature	230°C
Nozzle Temperature	220°C
Mould Temperature	30 - 50°C
Injection Rate	50 - 150 mm/sec
Injection Pressure	60 - 120 Mpa
Packing Pressure	30 - 80 Mpa
Back Pressure	Medium (0,5 - 5 MPa)
Screw Revolving Speed	50 - 150 rpm
Cushion	5 - 8 mm
Vent Depth	0,05 mm

### Notes

It is normally not necessary to dry HAIPLEN compounds, however should there be surface moisture (condensate) on the moulding compound as a result of incorrect storage, drying process is required. HAIPLEN must be stored indoors at a temperature below 40°C avoiding humidity and direct sunlight as well. HAIPLEN 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 HAIPLEN material the machine may be shut down.