



PRODUCT INFORMATION

HAIPLEN EP50 C8

Polypropylene copolymer medium flow 40% calcium carbonate filled, good surface appearance and mechanical properties.

ISO short Form ISO 1043: PP-MD40 Pellets

Key Features

- Improved impact resistance
- Mineral filled

Availability

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

Process

- INJECTION MOULDING

Application

- Electronic
- Electrical
- Consumer
- Building
- Automotive

Property	Method	Unit	Value	Condition	State
ELECTRICAL					
Tracking Resistance (CTI - Method A)	IEC 60112	Volt	>600		
PHYSICAL					
Density (+23°C)	ISO 1183	g/cm ³	1,23		
Filler content	ISO 3451	%	40	600°C - 1 h	
Granule Humidity	Internal method	%	0,05		
Mould Shrinkage (Parallel)	Internal method	%	1,0		
Mould Shrinkage (Normal)	Internal method	%	1,0		
Melt Flow Rate (MFR)	ISO 1133	g/10 min	10	230°C - 2,16 kg	

MECHANICAL



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Tensile Yield Strength	ISO 527-1,2	MPa	30	Speed 50 mm/min
Elongation at Break	ISO 527-1,2	%	20	Speed 50 mm/min
Flexural Modulus	ISO 178	MPa	2400	Speed 1 mm/min
IZOD Notched Impact	ASTM D256	J/m	40	+23°C

THERMAL

Softening Temperature - 1 kg (VST/A/50)	ISO 306	°C	152
Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	82
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	68
Deflection Temperature 0,45 MPa (HDT B)	ISO 75B	°C	130

FLAMMABILITY

Flame Behaviour (3,2 mm)	UL94	Class	HB
Oxygen index	ASTM D2863	%	21

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)



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Screw Revolving Speed	50 - 150 rpm
Cushion	5 - 8 mm
Vent Depth	0,05 mm

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