

HAIPLEN EP100 MF3

Polypropylene Copolymer

Taro Plast S.p.A.

Message:

Polypropylene copolymer high flow 17% mineral filled, high impact resistance and good mechanical properties.

General Information			
Filler / Reinforcement	Mineral filler, 17% filler by weight		
Features	Copolymer		
	Impact resistance, high		
	High liquidity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	22	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	0.80 - 1.0	%	Internal method
Flow direction	0.60 - 0.80	%	Internal method
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	25.0	MPa	ISO 527-2/50
Tensile Strain (Break)	35	%	ISO 527-2/50
Flexural Modulus ¹	1500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	120	J/m	ASTM D256
0°C	170	J/m	ASTM D256
23°C	250	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	°C	ISO 75-2/A
Continuous Use Temperature ²	80.0	°C	IEC 60216
Vicat Softening Temperature			
--	135	°C	ISO 306/A50
--	53.0	°C	ISO 306/B50
Flammability	Nominal Value	Test Method	
Flame Rating (1.60 mm)	HB	UL 94	
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content ³ (600°C)	17	%	ISO 3451

Injection	Nominal Value	Unit
Processing (Melt) Temp	180 - 200	°C
Mold Temperature	30.0 - 50.0	°C
Injection Rate	Fast	
Injection instructions		
Pre-heat Temperature: 70 to 80°CPre-heat Time: 3 hr		
NOTE		
1.	1.0 mm/min	
2.	20,000 hr	
3.	1 hr	

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