

HAIPLEN EP50 C10 Z1

Polypropylene Copolymer

Taro Plast S.p.A.

Message:

HAIPLEN EP50 C10 Z1 is a polypropylene copolymer (PP Copoly) product, which contains 50% calcium carbonate filler. It can be processed by injection molding and is available in Europe.

Features include:

- flame retardant/rated flame
- Impact modification
- Copolymer
- beautiful
- heat stabilizer

General Information			
Filler / Reinforcement	Calcium carbonate filler, 50% filler by weight		
Additive	Impact modifier		
	heat stabilizer		
	UV stabilizer		
Features	Impact modification		
	Copolymer		
	Laser marking		
	Detergent resistance		
	Thermal Stability		
	Excellent appearance		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.75 - 0.85	%	ASTM D955
Transverse flow	0.75 - 0.85	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	30.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	20	%	ASTM D638, ISO 527-2
Flexural Modulus	2200	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256

-20°C	25	J/m	ASTM D256
0°C	35	J/m	ASTM D256
23°C	50	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	130	°C	ASTM D648, ISO 75-2/B
1.8 MPa, not annealed	60.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	151	°C	ASTM D1525, ISO 306/A50 1 ¹
--	75.0	°C	ASTM D1525, ISO 306/B50 2 ²
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Additional Information			
Notched Izod Impact Strength , ISO 180, 23°C: 50 J/mNotched Izod Impact Strength , ISO 180, -20°C: 25 J/mNotched Izod Impact Strength , ISO 180, 0°C: 35 J/mMelt Mass-Flow Rate , ISO 1133, 230/2.16 kg: 4 to 10 g/10minMelt Mass-Flow Rate , ASTM D1238, 230/2.16 kg: 4 to 10 g/10minCTI IEC 112, IEC 60112, Method A: >600 V			
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 80.0	°C	
Drying Time	1.0	hr	
Processing (Melt) Temp	200 - 220	°C	
Mold Temperature	30.0 - 50.0	°C	
Injection Rate	Moderate		
NOTE			
1.	速率 A (50°C/h), 压 力1 (10N)		
2.	速率 A (50°C/h), 载荷2 (50N)		

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