

Ecomass® 4450CI86

Polypropylene Random Copolymer

Ecomass Technologies

Message:

Ecomass® 4450CI86 is a Polypropylene Random Copolymer (PP Random Copolymer) material filled with carbonyl iron powder. It is available in North America for injection molding.

Important attributes of Ecomass® 4450CI86 are:

- Copolymer
- Good Toughness
- Non-Toxic
- Rigid

General Information			
Filler / Reinforcement	Carbonyl Iron Powder		
Features	Good Toughness		
	High Specific Gravity		
	Medium Rigidity		
	Non-Toxic		
	Random Copolymer		
Uses	Radiation Shielding		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	3.70	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.60 to 1.0	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	19.0	MPa	ISO 527-2
Tensile Strain (Break)	1.3	%	ISO 527-2
Flexural Modulus	3800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	7.4	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	76.0	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 215	°C	
Mold Temperature	10.0 to 38.0	°C	

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