



TECHNICAL SPECIFICATION

Product	Insulated magnetic button – incorporates polypropylene casing and neodymium inner magnet
Part Numbers	PB2 (polypropylene casing) MAG (neodymium magnet)
Separation Force	2.5 kg (+/- 20%)

Product	Two piece attachment clasp for housing magnets		
Composition	Polypropylene Impact Copolymer (Moplen EP331K)		
Colour	White		
Part Number	PB2		
Drawing Number	BE-24-003		
General Description	Is formulated with a UV resistant additive package. Has good impact/rigidity, balance and creep resistance.		
Electrical Properties	Value	Units	Standard
Initially tested to	4000	Volts	-
Mechanical Properties	Value	Units	Standard
Density	0.9	g/cm ³	ISO 1183
Tensile stress at yield	23	Mpa	ISO 1133
Flexural Modulus	1150	Mpa	ISO 178
Notched Izod Impact Strength	5	KJ/m ²	ISO 180 0 degrees/c, type 1, notch A
Hardness	66	Shore D	ISO 868
Thermal Properties	Value	Units	Standard
Heat Deflection Temperature	50	Degrees Celsius	ISO 75A-1/2 1.8 Mpa, unannealed
Vicat Softening Temperature	150	Degrees Celsius	ISO 306 Method A

*Typical properties only.

Product	Neodymium Magnet	
Composition	Nd ₂ Fe ₁₄ B	
Colour	Silver	
Part Number	MAG	
Drawing Number	BE-24-003	
General Description	Very hard and brittle. Excellent resistance to demagnetisation. Good temperature stability.	
General Properties	Value Maximum	Value Minimum
Maximum Operating Temperature	80 °c	
Remanence Br(T)	1.3	1.23
Remanence Br(kGs)	13.0	12.3
Coercivity bHc(kA/m)		859
Coercivity bHc(Oe)		10.8
Intrinsic Coercivity iHc(kA/m)		955
Intrinsic Coercivity iHc(Oe)		12
Max. Energy Product (BH)max(KJ/m)	318	286
Max. Energy Product (BH)max(MGOe)	40	36
Cylindrical Size	12mm diameter, 10mm long	