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NdFeB BONDED PERMANENT MAGNETS

Description: isotropic permanent magnets obtained by incorporating NdFeB alloy microcrystalline magnetic powders into polymeric matrices.



Characteristics:

Specific properties of the material	NdFeB bonded magnets	
residual flux density, B_r (T)	0.48 – 0.58	0.60 – 0.65
coercivity		
H_{cB} (kA/m)	310 – 380	400 – 445
H_{cJ} (kA/m)	> 635	1035 - 1350
maximum energy density $(BH)_{max}$, (kJ/m ³)	39.8 – 55.7	> 63.7
temperature coefficients for B_r $\alpha(B_r)$, (%/°C)	-0.12	-0.13
temperature coefficients for H_{cJ} $\beta(H_{cJ})$, (%/°C)	-0.35	-0.40
density, ρ (g/cm ³)	4.8 – 5.0	5.8 – 6.0
maximum operating temperature, T_{max} (°C)	140	150
binder	PA12	Epoxi
moulding process	injection	compaction
material (alloy powder)	MQP microcrystalline powder	

Shape, size: complex geometries achieved directly by processing or by further electro-spark cutting.

Applications: electrical machines and special transducers for AC brushless micromotors.