

Anisotropic Rubber Magnet

Superrite rubber magnets are a composite material of ferrite magnet powder and compound rubber.

The magnet belongs to anisotropic with improved magnetic properties than isotropic, which are available as sheets, rectangle strip etc.

Superrite rubber magnets are used advantageously for motor and general goods. (Door Catch, Reed-Switch etc.)



Characteristics 特性		Material Code 材質		SMR-PD(H)	SMR-PD(N)	SMR-PD(M)
				【SMR-PD-15】		
Residual flux density 殘留磁束密度	Br	(mT)		245~265	245~265	240~260
		(G)		2450~2650	2450~2650	2400~2600
Coercive force 保磁力	bHc	(kA/m)		160~200 【163.2~187.0】	152~192	175~199
		(Oe)		2000~2500 【2050~2350】	1900~2400	2200~2500
Coercive force 保磁力	iHc	(kA/m)		224~272 【230.8~278.6】	184~232	> 255
		(Oe)		2800~3400 【2900~3500】	2300 ~2900	> 3205
Maximum energy product 最大磁能積	(BH)max	(kJ/m ³)		≥ 11.5 【11.1~12.7】	≥ 11.5	≥ 11.1
		(MG-Oe)		≥ 1.45 【1.40~1.60】	≥ 1.45	≥ 1.40
Hardness 硬度		Shore D (3"測試)		30~50	32~52	30~50
Tensile strength 抗拉強度		kg/cm ²		75 ~ 90		
Elongation 延伸率		%		25 ~ 35		
Density 密度		g/cm ³		3.5 ~ 3.7		
Weight reduction by heat 加熱減重		%		< 2.5		
Temperature range 使用溫度範圍		°C		- 40°C ~ + 100°C		
Thermal Expansion Coefficient 熱膨脹係數		X10 ⁻⁵ /°C		8.8		