

Catalogue: Rubber Magnets

Material Code		RMS-21Z	RMS-24	
Composition		Sr ferrite / Chlorinated polyethylene		
Orientation		Anisotropic		
Magnetic properties [min/max]	Test piece		as sheet	
	Residual induction Br	[mT]	250 / 270	255 / 275
		[G]	2,500 / 2,700	2,550 / 2,750
	Coercive force Hcb	[kA/m]	167 / 183	167 / 183
		[Oe]	2,100 / 2,300	2,100 / 2,300
	Intrinsic coercive force Hcj	[kA/m]	207 / 247	191 / 231
		[Oe]	2,600 / 3,100	2,400 / 2,900
Maximum energy product (BH)max	[kJ/m ³]	11.1 / 12.7	11.5 / 13.1	
	[MG·Oe]	1.4 / 1.6	1.5 / 1.7	
Physical properties [min/max]	Tensile Strength	TD [MPa]	8 / 9	8 / 9
		MD [MPa]	4 / 6	4 / 6
	Expansion	TD [%]	25 / 35	25 / 35
		MD [%]	300 / 600	300 / 600
	Thermal expansion coefficient	[10 ⁻⁵ °C]	8.8	8.8
	Hardness (SHORE D)		35 / 45	40 / 50
	Density	[g/cm ³]	3.70 / 3.80	3.75 / 3.85
	Loss by heating	[%]	<2.0	<2.0
Usage temperature range	[°C]	-40 / +85	-40 / +85	
Chemical resistance	Flame retardance UL-94		V-0	V-0
	Ozone	80ppm × 25°C × 72hr	Very good	Very good
	Heat	100°C × 72hr	Good	Good
	Cold	-40°C × 72hr	Very good	Very good
	Humidity	60°C × 90%RH × 72hr	Good	Good
	Thermal shock	-40°C ↔ 100°C × 0.5hr, 25times	Good	Good
	Weather	60°C × 100hr, Rain 12min/60min	Very good	Very good
	Salt spray	5% × 72hr	Very good	Very good
	Detergent	23°C × 72hr	Very good	Very good
	Motor oil	23°C × 72hr	Acceptable	Acceptable
	Alcohol	23°C × 72hr	Acceptable	Acceptable
	Ketones, thinners	23°C × 72hr	No good	No good
	Aromatic hydrocarbons	23°C × 72hr	No good	No good
Water	23°C × 72hr	Very good	Very good	