



SGTechnologies
delivering performance

Bonded permanent magnet material properties

Compression bonded and Injection
moulded materials

1st April 2014 / Issue 1

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ISOTROPIC INJECTION MOULDED BONDED NdFeB

TYPICAL MAGNETIC PROPERTIES.

SGM Designation	IEC Designation	Remanence		Normal Coercivity		Intrinsic Coercivity		Maximum Energy Product	
		B_r (Gauss)	B_r (mT)	H_{cB} (Oe)	H_{cB} (kA/m)	H_{cJ} (Oe)	H_{cJ} (kA/m)	$(BH)_{max}$ (MGOe)	$(BH)_{max}$ (kJ/m ³)
PAN26/63	REFe 26/60p	4000	400	3400	271	8300	661	3.45	27
PAN40/64	REFe 38/53p	5100	510	3950	314	7500	597	5.10	41
PAN48/59	REFe 46/53p	5600	560	4200	334	7500	597	6.10	49
PAN56/60	REFe 52/53p	6000	600	4400	350	7500	597	6.85	55
PPSN37/60	REFe 24/68p	4150	415	3250	259	9500	756	3.40	27
PPSN34/133MOD	REFe 36/119p	4650	465	4200	334	16500	1314	5.00	40

ISOTROPIC COMPRESSION MOULDED BONDED NdFeB

TYPICAL MAGNETIC PROPERTIES.

SGM Designation	IEC Designation	Remanence		Normal Coercivity		Intrinsic Coercivity		Maximum Energy Product	
		B_r (Gauss)	B_r (mT)	H_{cB} (Oe)	H_{cB} (kA/m)	H_{cJ} (Oe)	H_{cJ} (kA/m)	$(BH)_{max}$ (MGOe)	$(BH)_{max}$ (kJ/m ³)
EPN71/119	REFe 56/108p	6300	630	5300	422	15000	1194	8.00	64
EPN71/63	REFe 68/70p	7000	700	5400	430	9300	740	9.50	76
EPN71/120	REFe 64/112p	6300	630	5600	446	16000	1274	9.00	72
EPN71/84	REFe 68/78p	6800	680	5700	454	10500	836	9.50	76
EPN80/72	REFe 80/72p	7200	720	5600	446	9300	740	10.20	81
EPN84/70	REFe 84/70p	7500	750	5700	454	8900	709	10.80	86

ANISOTROPIC INJECTION MOULDED BONDED HARD FERRITE

TYPICAL MAGNETIC PROPERTIES.

SGM Designation	IEC Designation	Remanence		Normal Coercivity		Intrinsic Coercivity		Maximum Energy Product	
		B_r (Gauss)	B_r (mT)	H_{cB} (Oe)	H_{cB} (kA/m)	H_{cJ} (Oe)	H_{cJ} (kA/m)	$(BH)_{max}$ (MGOe)	$(BH)_{max}$ (kJ/m ³)
PAF7/21	HF 6/19p	2000	200	1750	139	2700	215	0.85	7
PAF11/23	HF 10/22p	2400	240	2200	175	3000	239	1.40	11
PAF13/21	HF 12/18p	2550	255	2100	167	2600	207	1.55	12
PAF14/22	HF 14/21p	2790	279	2400	191	2900	231	1.90	15
PAF16/24	HF 16/21p	2900	290	2500	199	2900	231	2.05	16
PAF18/22	HF 16/19p	3000	300	2350	187	2650	211	2.15	17

ISOTROPIC INJECTION MOULDED BONDED HARD FERRITE

TYPICAL MAGNETIC PROPERTIES.

SGM Designation	IEC Designation	Remanence		Normal Coercivity		Intrinsic Coercivity		Maximum Energy Product	
		B_r (Gauss)	B_r (mT)	H_{cB} (Oe)	H_{cB} (kA/m)	H_{cJ} (Oe)	H_{cJ} (kA/m)	$(BH)_{max}$ (MGOe)	$(BH)_{max}$ (kJ/m ³)
14%BaFe	HF 0.2/14p	300	30	300	24	2100	167	0.03	0.2
31%BaFe	HF 1/14p	690	69	640	51	2100	167	0.12	1.0
PAF2/21	HF 2/18p	1080	108	1000	80	2600	207	0.30	2.4
PAF3/21	HF 3/18p	1450	145	1150	92	2600	207	0.40	3.2
PAF4/21	HF 4/19p	1480	148	1250	100	2700	215	0.50	4.0
PAF5/21	HF 5/21p	1530	153	1300	104	2900	231	0.60	4.8