



Ferrite

Magnetic Features									
Material Type		IMP/06	IMP/08	IMP/10	IMP/12	IMP/14	IMP/15	IMP/16	IMP/18
Residual flux density (Br)	mT	187	218	232	258	272	282	288	297
	gs	1870	2180	2320	2580	2720	2820	2880	2970
Coercive force (Hcb)	Ka/m	130	170	175	197	195	187	187	183
	Oe	1634	2136	2199	2476	2450	2350	2350	2300
Intrinsic coercive force (iHc)	Ka/m	180	280	263	240	235	227	227	207
	Oe	2262	3519	3305	3016	2953	2853	2853	2601
Maximum energy product (BH max)	KJ/m ³	6.3	9	10.8	12.8	14.3	15.6	16.2	17.4
	MGOe	0.84	1.13	1.36	1.61	1.8	1.96	2.04	2.19
Thermal Coefficient (ΔBr/Br) Thermal Coefficient (ΔBr/Br)	%/°C	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
Thermal Coefficient (ΔHc/Hc)	%/°C	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Tensile Strength	Mpa	50	54	56	58	58	57.6	45.5	52.8
Flexural strength	Mpa	85	94	98	100	103	106	90.6	100
Specific gravity	g/cm ³	2.7	3.05	3.29	3.45	3.52	3.64	3.69	3.74
Moulding shrinkage coefficient	%	0.8	0.8	0.75	0.75	0.7	0.7	0.65	0.65
Melt Flow rate 270°C*10 Kg	g/10min	130	110	105	100	90	80	70	80

*Materials: PA12+Ferrite Anisotropic

Magnetic Features																							
Grade		IMF-2A	IMF-2C	IMF-2D	IMF-2E	IMF-3	IMF-4A	IMF-4B	IMF-5A	IMF-5B	IMF-5X	IMF-5XH	IMF-5N	IMF-5H	IMF-5E	IMF-6X	IMF-6E	IMF-6B	IMF-6H	IMF-6N	IMF-67BE	IMF-7NH	IMF-7X
		DRY ANISOTROPIC					WET ANISOTROPIC																
Br	Mt	340-360	350-380	365-395	375-400	330-360	375-400	385-405	360-380	330-360	400-420	395-415	420-440	380-400	350-375	405-425	370-390	410-430	390-410	430-450	410-430	430-450	440-460
	Gs	3400-3600	3500-3800	3650-3950	3750-4000	3300-3600	3570-4000	3850-4050	3600-3800	3300-3600	4000-4200	3950-4150	4200-4400	3800-4000	3500-3750	4050-4250	3700-3900	4100-4300	3900-4100	4300-4500	4100-4300	4300-4500	4400-4600
Hcb	kA/m	215-240	228-252	230-250	250-274	230-260	250-274	220-250	260-285	260-285	240-270	265-285	215-240	275-300	265-295	270-295	278.6-302.4	291.-314.9	290.5-314.3	246.7-270.5	302-324	316-340	260-284
	Oe	2703-3017	2866-3168	2891-3268	3143-3444	2891-3268	3143-3444	2765-3143	3268-3582	3268-3582	3017-3394	3331-3582	2703-3017	2457-3771	3331-3708	3394-3708	3502-3801	3659-3958	3652-3951	3101-3400	3795-4072	3971-4273	3268-3569
Hc	kA/m	235-270	235-265	235-275	260-285	235-270	260-285	230-260	310-335	330-360	250-275	270-290	218-245	300-330	355-380	280-305	382-405.8	306.1-329.9	346.2-370	250.7-274.5	382-405.8	340-366	270-294
	Oe	2954-3394	2954-3381	2954-3457	3268-3582	2954-3394	3268-3582	2891-3268	3897-4211	4148-4525	3142-3457	3394-3645	2740-3080	3771-4148	4462-4777	3519-3833	4802-5101	3848-4147	4352-4651	3151-3450	4800-5099	4273-4599	3393-3695
[BH] max	J/m ³	21-24	24-28	26-30	2731	21-25	27-31	39-31.8	25-29	24-27	30-34	31-34	33-37	27-32	24-27	31-35	25.9-29.1	31.8-35	28.7-31.9	35.1-38.3	33.0-36.2	35.4-38.6	37.2-39.4
	MGOe	2.6-3.0	3.0-3.5	3.3-3.8	3.74-3.9	2.6-3.1	3.4-3.9	3.6-4.0	3.1-3.6	3.0-3.4	3.8-4.3	3.9-4.3	4.1-4.6	3.4-4.0	3.0-3.4	3.9-4.4	3.3-3.7	4.0-4.4	3.6-4.0	4.4-4.8	4.51-4.55	4.45-4.85	4.67-4.95
Material		SrO6-Fe ₂ O ₃					SrO6-Fe ₂ O ₃																
Application		AO Facilities, Household Appliances, Automotive Motors					Automotive Motors, Power Tools, Household Appliances, AO Facilities						Power Tools, Automotive Motors, AO Facilities, Household Appliances										