

Bonded Ferrite Magnetic Properties

Grade				FA11	FA15	FA19	FA20T	FA22T
Resin Binder				PA6				
Magnetic Properties	Residual Induction	Br	mT(Gs)	213 2130	245 2450	284 2840	293 2930	305 3050
	Coercive Force	Hcb	kA/m(Oe)	162 2040	183 2300	195 2450	193 2420	191 2400
		Hcj	kA/m(Oe)	279 3500	251 3150	235 2950	223 2800	229 2870
	Maximum Energy Product	(BH)max	kJ/m^3 (MGOe)	8.8 1.10	11.9 1.50	15.6 1.96	16.6 2.08	18.1 2.27
Mechanical Properties	Tensile Strength		MPa	85	85	90	85	80
	Flexural Strength		MPa	160	165	170	160	145
	Izod Impact Strength		kJ/m^2	50	35	19	15	11
Physical Properties	Density		g/cm^3	3.03	3.32	3.60	3.70	3.85
	Melt Flow Rate (270°C/10kg)		g/10min	100	80	120	80	50
	Br Rev.Temp. Coef. of Br		%/K	-0.19	-0.19	-0.19	-0.19	-0.19
	Hcj Rev.Temp. Coef. of Hcj		%/K	0.13	0.13	0.13	0.13	0.13
	Molded Shrinkage		%	0.7	0.4	0.4	0.4	0.3
Injection Parameters	Pre-drying Temp.		°C	100~120	100~120	100~120	100~120	100~120
	Pre-drying Time		hr	4~8	4~8	4~8	4~8	4~8
	Injection Temp.		°C	250~270	260~280	265~285	270~290	275~295
	Mold Temp.		°C	60~80	60~80	60~80	60~80	60~80
	Pressure		bar	60~90	70~100	60~90	65~95	70~100
	Speed		V%	40~70	45~75	45~75	45~75	50~80