

INJECTION MOLDED FERRITE MAGNET MAGNETIC PROPERTIES

Binder PA6

Magnetic Properties

Grade	Magnetic isotropy	Br mT / Gs	Hcb kA/m / Oe	Hcj kA/m / Oe	(BH)max kJ/m³ / MGOe
TZ0606	Isotropic	185 / 1850	127 / 1600	231 / 2900	6.4 / 0.8
YZ1106	Anisotropic	240 / 2450	167 / 2100	226 / 2850	11.6 / 1.45
YZ1206	Anisotropic	250 / 2500	183 / 2300	223 / 2800	12.4 / 1.55
YZ1306	Anisotropic	255 / 2550	187 / 2350	230 / 2900	13.2 / 1.65
YZ1406	Anisotropic	270 / 2700	191 / 2400	238 / 3000	14 / 1.75
YZ1506	Anisotropic	275 / 2750	195 / 2450	238 / 3000	15.2 / 1.9
YZ1606	Anisotropic	285 / 2850	200 / 2500	235 / 2950	16.4 / 2.05

Physical Properties

Grade	Tensile strength MPa	Melt flow rate g/10 min	Density g/cm³	Molding shrinkage %	Br temperature coefficient %/°C
TZ0606	—	—	—	—	—
YZ1106	60	120	3.4	0.6	-0.19
YZ1206	60	120	3.4	0.6	-0.19
YZ1306	50	110	3.45	0.6	-0.19
YZ1406	50	110	3.5	0.6	-0.19
YZ1506	45	110	3.6	0.5	-0.19
YZ1606	40	100	3.65	0.5	-0.19

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Binder PA12

Magnetic Properties

Grade	Magnetic isotropy	Br mT / Gs	Hcb kA/m / Oe	Hcj kA/m / Oe	(BH)max kJ/m³ / MGOe
TZ0212	Isotropic	115 / 1150	79 / 1000	203 / 2550	2.4 / 0.3
YZ1212	Anisotropic	250 / 2500	187 / 2350	223 / 2800	12.4 / 1.55
YZ1512	Anisotropic	265 / 2650	191 / 2400	239 / 3000	14.8 / 1.85
YZ1612	Anisotropic	285 / 2850	195 / 2450	239 / 3000	16.4 / 2.05

Physical Properties

Grade	Tensile strength MPa	Melt flow rate g/10 min	Density g/cm³	Molding shrinkage %	Br temperature coefficient %/°C
TZ0212	40	200	2.9	0.7	-0.19
YZ1212	40	50	3.45	0.5	-0.19
YZ1512	40	—	3.6	0.5	-0.19
YZ1612	35	—	3.65	0.5	-0.19

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Binder PPS

Magnetic Properties

Grade	Magnetic isotropy	Br mT / Gs	Hcb kA/m / Oe	Hcj kA/m / Oe	(BH)max kJ/m³ / MGOe
YZ13PPS	Anisotropic	260 / 2600	179 / 2250	227 / 2850	13.2 / 1.65
TZ34PPS	Isotropic	450 / 4500	302 / 3800	915 / 11500	33.6 / 4.2

Physical Properties

Grade	Tensile strength MPa	Melt flow rate g/10 min	Density g/cm³	Molding shrinkage %	Br temperature coefficient %/°C
YZ13PPS	40	40	3.55	0.4	-0.19
TZ34PPS	—	—	4.65–4.67	—	-0.1