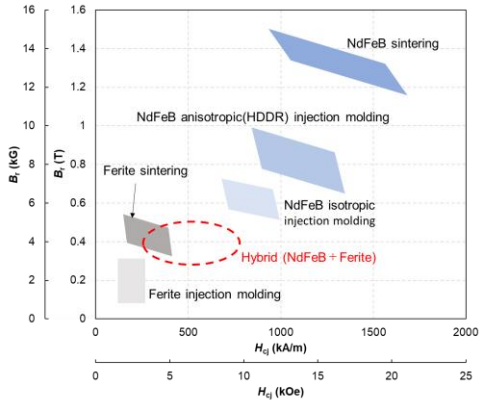
Hybrid (Ferrite/NdFeB)-PPS compound
“THP-LA725Y”

未来を支える粒子になる。

TODA

Hybrid PPS Compound (Isotropic NdFeB and Ferrite powders x PPS)



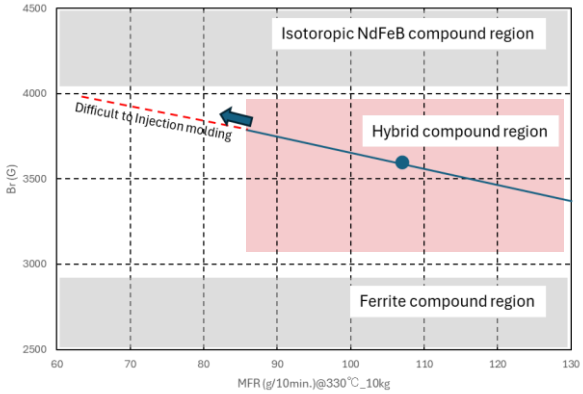
- It's applied to Higher magnetic property than Ferrite compounds for injection molding and higher economic advantage than NdFeB compounds.
- It's also compound for injection molding, so, it has greater freedom in shape, dimensional accuracy, and higher strength than sintered magnets.

Material	Material cost	Process Cost	Accuracy of dimension	Flexibility of Shape	Chip Break
Hybrid Injyection	☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Ferrite Injyection	☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
NdFeB Injection	☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Ferrite Sinter	☆☆☆	☆☆	☆☆	☆	☆☆

Examples of characteristics

Grade		THP-LA725Y (In Lab.)
Powder Type		Iso. NdFeB + Aniso. Fr (Orientation)
BINDER		PPS
MOLD DENSITY		4.16
MFR(330℃/10kg)		107
Br	(kG)	3.4
	(mT)	340
bHc	(kOe)	2.6
	kA/m	207
iHc	(kOe)	4.1
	(kA/m)	326
(BH)max	(MGOe)	2.7
	(kJ/m^3)	21

With orientation



The table on the left is an example of a hybrid compound.

It's based on Isotropic NdFeB and Ferrite magnetic powders, and the characteristics can be adjustable by changing those filler contents.