

# FC | NC

## Ferrite / NdFeB Compound

### MATERIAL TYPE

Plastic compound

### MANUFACTURING PROCESS

Mixing / Extrusion / Granulation

### SURFACE PROTECTION

Not necessary

### ORIENTATION & MAGNETIZATION

Depends by mold design



### NdFeB Compounds

Thermal Coefficient (%/°C):  $\Delta Br = -0,12$   $\Delta Hc_j = -0,4$

### NdFeB Compound with Binder PPS

GRADES	Br		HcB		HcJ		BHmax		Tensile Strength	Flexural Strength	Izod Impact Strength	Mold Density	Melt Flow Rate
	G	T	Oe	kA/m	Oe	kA/m	MG0e	kJ/m <sup>3</sup>	MPa	MPa	kJ/m <sup>2</sup>	g/cm <sup>3</sup>	g/10min
NC-PPS 20	3,204	0,320	2,710	216	7,208	574	2,2	17,5	65	119	11	3,9	500
NC-PPS 50	4,870	0,487	4,137	329	9,831	783	5	40	40	103	10	4,9	150

### NdFeB Compound with Binder PA12

GRADES	Br		HcB		HcJ		BHmax		Tensile Strength	Flexural Strength	Izod Impact Strength	Mold Density	Melt Flow Rate
	G	T	Oe	kA/m	Oe	kA/m	MG0e	kJ/m <sup>3</sup>	MPa	MPa	kJ/m <sup>2</sup>	g/cm <sup>3</sup>	g/10min
NC-PA12 45	4,607	0,461	3,480	277	7,705	613	4,1	32,6	58	105	18	4,6	360
NC-PA12 80	6,680	0,668	5,070	404	7,500	597	8,6	68,5	53	96	10	5,5	180

## Ferrite Compound with Binder PA6

GRADES	Br		HcB		HcJ		BHmax		Tensile Strength	Flexural Strength	Izod Impact Strength	Mold Density	Melt Flow Rate
	G	T	Oe	kA/m	Oe	kA/m	MG0e	kJ/m <sup>3</sup>	MPa	MPa	kJ/m <sup>2</sup>	g/cm <sup>3</sup>	g/10min
FC-PA6 15	2.450	0,245	2.300	183	3.150	251	1,50	12	108	157	25	3,32	80
FC-PA6 19	2.840	0,284	2.450	195	2.950	235	1,96	15,6	90	155	19,3	3,67	120
FC-PA6 20T	2.930	0,293	2.420	193	2.800	223	2,08	16,6	85	140	15	3,7	80
FC-PA6 22T	3.000	0,300	2.470	197	2.700	215	2,20	17,5	80	145	11	3,85	50

## Ferrite Compound with Binder PA12

GRADES	Br		HcB		HcJ		BHmax		Tensile Strength	Flexural Strength	Izod Impact Strength	Mold Density	Melt Flow Rate
	G	T	Oe	kA/m	Oe	kA/m	MG0e	kJ/m <sup>3</sup>	MPa	MPa	kJ/m <sup>2</sup>	g/cm <sup>3</sup>	g/10min
FC-PA12 16	2.580	0,258	2.430	193	3.200	255	1,64	13	62	110	17	3,3	160
FC-PA12 19R	2.830	0,283	2.570	205	3.200	255	1,95	15,5	56	110	18,7	3,58	100
FC-PA12 20RT	2.940	0,294	2.550	203	3.100	247	2,1	16,7	49	90	12	3,7	90
FC-PA12 23R	3.060	0,306	2.620	209	3.180	253	2,26	18	50	93	10	3,83	50

## Ferrite Compound with Binder PPS

GRADES	Br		HcB		HcJ		BHmax		Tensile Strength	Flexural Strength	Izod Impact Strength	Mold Density	Melt Flow Rate
	G	T	Oe	kA/m	Oe	kA/m	MG0e	kJ/m <sup>3</sup>	MPa	MPa	kJ/m <sup>2</sup>	g/cm <sup>3</sup>	g/10min
FC-PPS 15	2.500	0,250	2.250	179	3.100	246	1,52	12,2	55	110	9	3,44	130
FC-PPS 17	2.681	0,268	2.226	177	2.736	218	1,76	14	60	105	9	3,61	128