



## ISOTROPIC INJECTION MOLDING NdFeB (IBN)

Compound di NdFeB e polimeri stampato a iniezione. Proprietà magnetiche più basse del plastoneodimio pressato ma possibilità di forme complesse con elevate precisioni e costampaggio di inserti

### Typical magnetic properties

Grade	Residual Induction (Br)		Coercivity (minimum values) (bHC)		Intrinsic Coercivity (minimum values) (jHC)		Max Energy Product (BH)max		Temperature Coefficient $\Delta \% / \cdot ^\circ\text{C}^{-1}$	Density
	KGs	mT	KOe	KA/m	KOe	KA/m	MGOe	KJ/m3	Br	g/cm3
IBN-4L	4.1 - 4.9	410 - 490	3.1 - 3.9	247 - 310	7.2 - 9.2	573 - 732	3.5 - 4.5	28 - 36	0.10	4.2 < 4.9
IBN-6	4.8 - 5.6	480 - 560	4.2 - 5.0	334 - 398	13.0 - 17.0	1035 - 1353	5.0 - 6.5	40 - 52	0.15	5 < 5.5
IBN-6L	5.4 - 6.2	540 - 620	4.3 - 5.1	342 - 406	8.0 - 10.0	637 - 796	6.2 - 7.7	49 - 61	0.10	
IBN-8L	5.7 - 6.3	570 - 630	4.8 - 5.4	382 - 430	8.5 - 10.5	676 - 836	7.4 - 8.4	59 - 67	0.10	5.5 < 6
IBN-9L	6.4 - 7.2	640 - 720	5.0 - 5.8	396 - 462	8.0 - 10.0	637 - 796	8.5 - 9.5	68 - 76	0.10	
IBN-6LR	4.8 - 5.6	480 - 560	3.8 - 4.6	302 - 366	8.0 - 10.0	637 - 796	4.5 - 6.0	36 - 48	0.10	4.6 < 5.1
IBN-6SR	4.6 - 5.2	460 - 520	3.9 - 4.7	310 - 374	10.5 - 13.5	836 - 1075	4.6 - 5.6	37 - 45	0.13	
IBN-7LR	5.5 - 6.1	550 - 610	4.6 - 5.2	366 - 414	8.0 - 10.0	637 - 796	6.5 - 7.5	52 - 60	0.10	5 < 5.5
IBN-7SR	5.2 - 5.8	520 - 580	4.4 - 5.0	350 - 398	10.5 - 13.5	836 - 1025	5.9 - 7.0	47 - 56	0.13	

Note: The above properties are subject to change without notice. For details about irreversible losses with temperature changes pls contact us

### Other typical properties

<b>Bending Strenght</b>	<b>Coefficient of thermal expansion</b>	<b>Recoil Permeability</b>	<b>Minimum saturation field</b>
Mpa	21 < 26 x 10 <sup>-6</sup> °C ( 30 - 100°C)	1..10 - 1.22	KA/m > 1990
15700 < 24200			KOe > 25
<b>Compression Strenght</b>	<b>Tensil Strenght</b>	<b>Flexural Strenght</b>	<b>Electric resistivity</b>
Mpa	Mpa	Mpa	Ohm/m
50	33 < 37	71 < 74	130 x 10 <sup>-6</sup>
<b>Young's Module</b>	<b>Hardness</b>		
Mpa	HRM		
16000 < 25000	70 - 107		

Note: The above properties are measured on samples, they are subject to change and cannot be guaranteed for any size. Pls contact us for details