

Main Physical & Mechanical Properties of Injection Bonded NdFeB Magnet

Material Grade		BNI-3	BNI-4	BNI-5	BNI-6	BNI-6H	BNI-7	BNI-5SR
Tensile Strength	MPa	35--60	35--60	35--60	35--60	35--60	35--60	25--50
Flexural Strength	MPa	74	74	74	74	74	74	71
Bending Elastic Modulus	MPa	15700	15700	15700	15700	15700	15700	24200
Thermal Expansion Coefficient	$10^{-6}/^{\circ}\text{C}$	25--40	25--40	25--40	25--40	25--40	25--40	15--30
Hardness	Shore D	80--100	80--100	80--100	80--100	80--100	80--100	80--100
Density	g/cm^3	3.9--4.4	4.2--4.9	4.5--5.0	4.7--5.1	4.8--5.2	5.0--5.5	4.9--5.4
Electric Resistivity	$\mu\Omega.\text{m}$	160--180	160--180	160--180	160--180	160--180	160--180	120--140
Recoil Permeability		1.26	1.20	1.20	1.20	1.13	1.20	1.13