

## Typical data for SURA® M700-100A

T	W/kg at 50 Hz	VA/kg at 50 Hz	A/m at 50 Hz
0,1	0,04	0,06	29,3
0,2	0,14	0,19	44,8
0,3	0,29	0,38	58,4
0,4	0,51	0,62	72,2
0,5	0,77	0,93	87,0
0,6	1,05	1,31	103
0,7	1,42	1,79	121
0,8	1,85	2,37	140
0,9	2,32	3,07	161
1,0	2,83	3,94	185
1,1	3,37	5,06	225
1,2	3,98	6,59	294
1,3	4,66	8,91	412
1,4	5,39	13,2	649
1,5	6,24	23,3	1220
1,6	7,13	49,9	2630
1,7	8,02	109	5370
1,8	8,83	214	9710

Loss at 1.5 T , 50 Hz, W/kg	6,24
Loss at 1.0 T , 50 Hz, W/kg	2,83
Anisotropy of loss, %	1
Magnetic polarization at 50 Hz	
H = 2500 A/m, T	1,59
H = 5000 A/m, T	1,69
H = 10000 A/m, T	1,80
Coercivity (DC), A/m	50
Relative permeability at 1.5 T	980
Resistivity, $\mu\Omega\text{cm}$	44
Yield strength, N/mm <sup>2</sup>	305
Tensile strength, N/mm <sup>2</sup>	440
Young's modulus, RD, N/mm <sup>2</sup>	185 000
Young's modulus, TD, N/mm <sup>2</sup>	200 000
Hardness HV5 (VPN)	160

RD represents the rolling direction

TD represents the transverse direction

Values for yield strength (0.2 % proof strength)

and tensile strength are given for the rolling direction

Values for the transverse direction are approximately 5% higher

