

Injection 1013B

Engineering Plastics

Dry as molded				
Characteristic		Unit	Test method	Measured value
Mechanical Characteristics				
Tensile stress at yield		MPa	ISO 527-1, 2	80
Tensile strain at break		%		30
Tensile modulus		GPa		2.9
Flexural strength		MPa	ISO 178	110
Flexural modulus		GPa		2.7
Charpy notched impact strength		kJ/m ²	ISO 179-1/1eA	6
Rockwell hardness	R. Scale	—	ISO 2039-2	120
	M. Scale			80
Thermal Characteristics				
Melting temperature		° C	ISO 11357	215~225
Coeff. of linear thermal expansion		x10 ⁻⁵ /° C	ISO 11359-2	8
Temperature of deflection under load	0.45 MPa	° C	ISO 75-1, 2	155
	1.8 MPa	° C		60
Electical Characterisitics				
Volume resistivity		Ω cm	JIS K6911	10 ¹⁵
Electric strength		kV/mm	IEC 60243-1	20
Relative permittivity		—	IEC 60250	3.5
Arc resitance		s	D-495 (ASTM)	119

C. T. I		UL index	UL746A	0
Others				
Density		g/cm ³	ISO 1183-3	1. 14
Water absorption	23 ° C, 50 %RH	%	UBE method	3
Molding shrinkage	MD	%	UBE method (30x100x3t)	1. 4
	TD			1. 5
Nomenclature accdording to ISO 1874-1				PA6, M, 12- 030