

Injection 1013B

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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		%		40
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	5
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		Ωcm	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	2.5
Molding shrinkage	MD	%	UBE method(30x100x3t)	1.4
	TD			1.5
Nomenclature accdording to ISO 1874-1				PA6, M, 12-030