

Injection 1018I

Engineering Plastics

Dry as molded

Characteristic		Unit	Test method	Measured value
Mechanical Characteristics				
Tensile stress at yield		MPa	ISO 527-1,2	45
Tensile strain at break		%		> 50
Tensile modulus		GPa		1.4
Flexural strength		MPa	ISO 178	55
Flexural modulus		GPa		1.4
Charpy notched impact strength		kJ/m ²	ISO 179-1/1eA	125
Rockwell hardness	R.Scale	-	ISO 2039-2	102
	M.Scale			29
Thermal Characteristics				
Melting temperature		° C	ISO 11357	215~225
Coeff. of linear thermal expansion		x10 ⁻⁵ /° C	ISO 11359-2	10
Temperature of deflection under load	0.45 MPa	° C	ISO 75-1,2	75
	1.8 MPa	° C		50
Electical Characterisitics				
Volume resistivity		Ω cm	JIS K6911	-
Electric strength		kV/mm	IEC 60243-1	-
Relative permittivity		-	IEC 60250	-
Arc resitance		s	D-495(ASTM)	-
C.T.I		UL index	UL746A	0
Others				
Density		g/cm ³	ISO 1183-3	1.07
Water absorption		23 ° C, 50 %RH	UBE method	2.0
Molding shrinkage	MD	%	UBE method(30x100x3t)	1.1
	TD			1.5
Nomenclature according to ISO 1874-1				PA6-HI, M, 14-010

