

Engineering Plastics
Injection 1013B

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	

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