

Injection 1015GC6

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Engineering Plastics

Dry as molded

Characteristic		Unit	Test method	Measured value
Mechanical Characteristics				
Tensile strength		MPa	ISO 527-1,2	185
Tensile strain at break		%		3.5
Tensile modulus		GPa		9.3
Flexural strength		MPa	ISO 178	280
Flexural modulus		GPa		8.5
Charpy notched impact strength		kJ/m ²	ISO 179-1/1eA	15
Rockwell hardness	R.Scale	-	ISO 2039-2	120
	M.Scale			100
Thermal Characteristics				
Melting temperature		° C	ISO 11357	215~225
Coeff. of linear thermal expansion		x10 ⁻⁵ /° C	ISO 11359-2	2.5
Temperature of deflection under load	0.45 MPa	° C	ISO 75-1,2	220
	1.8 MPa	° C		205
Electical Characterisitics				
Volume resistivity		Ω cm	JIS K6911	-
Electric strength		kV/mm	IEC 60243-1	-
Relative permittivity		-	IEC 60250	3.6
Arc resitance		s	D-495(ASTM)	121
C.T.I		UL index	UL746A	1
Others				
Density		g/cm ³	ISO 1183-3	1.36
Water absorption	23 ° C, 50 %RH	%	UBE method	1.8
Molding shrinkage	MD	%	UBE method(30x100x3t)	0.2
	TD			0.7
Nomenclature accdording to ISO 1874-1				PA6, M, 14-100, GF30