

## UNITIKA NYLON6

Type : Transparent nylon

Property	Standard	Unit	CX - 2500	
			Dry	Cond.

### **Mechanical properties**

Tensile stress at yield	ISO 527-1 527-2	MPa		
Tensile stress at break			90	67
Tensile modulus		MPa	3000	2700
Tensile strain at yield		%	6.0	6.0
Tensile strain at break			60	60
Flexural strength	ISO 178	MPa	126	113
Flexural modulus		MPa	2900	2600
Charpy impact strength	ISO 179-1	kJ/m <sup>2</sup>	80	80
Charpy notched impact strength			2	2
Rockwell Hardness (R Scale)	ISO 2039			

### **Thermal properties**

Coefficient of linear thermal expansion	ISO 11359-2	10 <sup>-5</sup> /	7.7	
Deflection Temperature under load 1.8MPa	ISO 75-1 75-2		90	70
Deflection Temperature under load 0.45MPa		100	85	

### **Electrical properties**

Volume resistivity	IEC 60093	-m	1 × 10 <sup>13</sup>	
Electric strength      Thickness: 1mm	IEC 60243-1	MV/m	33	
Dielectric constant      10 <sup>6</sup> Hz	IEC 60250		3.3	
Dissipation factor      10 <sup>6</sup> Hz	IEC 60250		0.060	
Comparative tracking Index	IEC 60112			

### **Other properties**

Density	ISO 1183	g/cm <sup>3</sup>	1.11	
Water absorption 23 in water 24h 23 /50%RH equilibrium	ISO 62	%	0.7	1.3
Mold shrinkage      flow (Thickness : 3.2mm)      transverse		%	0.7	1.3
Flammability	UL-94		0.75mmt V-2	

Dry: dry-as-mold condition

Cond.: conditioned to equilibrium at 23 50%RH

The data listed here are typical of average lots and not guaranteed values .