

## UNITIKA NYLON66

**Type : Flame retardant , glass-fiber 30% reinforced nylon**

Property	Standard	Unit	BV 2 1 2 0 G 3 0	
			Dry	Cond.

### **Mechanical properties**

Tensile stress at yield	ISO 527-1 527-2	MPa		
Tensile stress at break			150	113
Tensile modulus		MPa	12200	8700
Tensile strain at yield		%		
Tensile strain at break			2.1	2.3
Flexural strength	ISO 178	MPa	250	170
Flexural modulus		MPa	11000	8200
Charpy impact strength	ISO 179-1	kJ/m <sup>2</sup>	45	50
Charpy notched impact strength			8	11
Rockwell Hardness (R Scale)	ISO 2039		114	102

### **Thermal properties**

Coefficient of linear thermal expansion	ISO 11359-2	10 <sup>-5</sup> /	3.0	
Deflection Temperature under load 1.8MPa	ISO 75-1 75-2		238	
Deflection Temperature under load 0.45MPa			256	

### **Electrical properties**

Volume resistivity	IEC 60093	-m	10 <sup>13</sup>	
Electric strength      Thickness: 1mm	IEC 60243-1	MV/m	28	
Dielectric constant      10 <sup>6</sup> Hz	IEC 60250		3.6	
Dissipation factor      10 <sup>6</sup> Hz	IEC 60250		0.02	
Comparative tracking Index	IEC 60112			

### **Other properties**

Density	ISO 1183	g/cm <sup>3</sup>	1.65	
Water absorption 23 /50%RH equilibrium	ISO 62	%	0.9	
Mold shrinkage      flow (Thickness: 3.2mm)      transverse		%	0.3	0.7
Flammability	UL-94		0.75mmt V-0	

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 .