

UNITIKA NYLON66

Type : Glass-fiber 15% reinforced nylon

Property	Standard	Unit	A 175 G 15	
			Dry	Cond.

Mechanical properties

Tensile stress at yield	ISO 527-1 527-2	MPa		
Tensile stress at break			120	73
Tensile modulus		MPa	5700	3500
Tensile strain at yield		%		
Tensile strain at break			2.5	3.0
Flexural strength	ISO 178	MPa	188	110
Flexural modulus		MPa	5000	3200
Charpy impact strength	ISO 179-1	kJ/m ²	30	39
Charpy notched impact strength			6	8
Rockwell Hardness (R Scale)	ISO 2039			

Thermal properties

Coefficient of linear thermal expansion	ISO 11359-2	10 ⁻⁵ /	4.2	
Deflection Temperature under load 1.8MPa	ISO 75-1 75-2		229	
Deflection Temperature under load 0.45MPa			252	

Electrical properties

Volume resistivity	IEC 60093	-m	10 ¹²	
Electric strength Thickness: 1mm	IEC 60243-1	MV/m	33	
Dielectric constant 10 ⁶ Hz	IEC 60250		3.4	
Dissipation factor 10 ⁶ Hz	IEC 60250			
Comparative tracking Index	IEC 60112			

Other properties

Density	ISO 1183	g/cm ³	1.26	
Water absorption 23 /50%RH equilibrium	ISO 62	%	1.9	
Mold shrinkage (Thickness: 3.2mm) flow transverse		%	0.6	1.5
Flammability	UL-94		0.84mmt HB	

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 .