

UNITIKA NYLON66

Type : Flame retardant nylon

Property	Standard	Unit	BV 2 1 2 0	
			Dry	Cond.

Mechanical properties

Tensile stress at yield	ISO 527-1 527-2	MPa		
Tensile stress at break			77	50
Tensile modulus		MPa	3300	1600
Tensile strain at yield		%		
Tensile strain at break			3.0	4.8
Flexural strength	ISO 178	MPa	120	66
Flexural modulus		MPa	3200	1500
Charpy impact strength	ISO 179-1	kJ/m ²	41	56
Charpy notched impact strength			3	5
Rockwell Hardness (R Scale)	ISO 2039		115	96

Thermal properties

Coefficient of linear thermal expansion	ISO 11359-2	10 ⁻⁵ /	7.0	
Deflection Temperature under load 1.8MPa	ISO 75-1 75-2		108	
Deflection Temperature under load 0.45MPa			180	

Electrical properties

Volume resistivity	IEC 60093	-m	10 ¹³	
Electric strength Thickness: 1mm	IEC 60243-1	MV/m	25	
Dielectric constant 10 ⁶ Hz	IEC 60250		3.6	
Dissipation factor 10 ⁶ Hz	IEC 60250		0.01	
Comparative tracking Index	IEC 60112			

Other properties

Density	ISO 1183	g/cm ³	1.33	
Water absorption 23 /50%RH equilibrium	ISO 62	%	1.5	
Mold shrinkage flow (Thickness: 3.2mm) transverse		%	1.5	1.7
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 .