

UNITIKA NYLON66

Type : Flame retardant , glass-fiber 15% reinforced nylon

Property	Standard	Unit	BV 2 1 2 0 G 1 5	
			Dry	Cond.

Mechanical properties

Tensile stress at yield	ISO 527-1 527-2	MPa		
Tensile stress at break			121	87
Tensile modulus		MPa	7300	5100
Tensile strain at yield		%		
Tensile strain at break			2.3	2.5
Flexural strength	ISO 178	MPa	169	120
Flexural modulus		MPa	6700	4300
Charpy impact strength	ISO 179-1	kJ/m ²	37	56
Charpy notched impact strength			6	8
Rockwell Hardness (R Scale)	ISO 2039		114	101

Thermal properties

Coefficient of linear thermal expansion	ISO 11359-2	10 ⁻⁵ /	4.0	
Deflection Temperature under load 1.8MPa	ISO 75-1 75-2		223	
Deflection Temperature under load 0.45MPa			246	

Electrical properties

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

Other properties

Density	ISO 1183	g/cm ³	1.50	
Water absorption 23 /50%RH equilibrium	ISO 62	%	1.2	
Mold shrinkage flow (Thickness : 3.2mm) transverse		%	0.4	0.8
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 .