

UNITIKA NYLON66

Type : Glass-fiber 60% nylon

Property	Standard	Unit	E - RUNG 6 0	
			Dry	Cond.

Mechanical properties

Tensile stress at yield	ISO 527-1 527-2	MPa		
Tensile stress at break			240	215
Tensile modulus		MPa	19000	15000
Tensile strain at yield		%		
Tensile strain at break			1.8	2.3
Flexural strength	ISO 178	MPa	370	320
Flexural modulus		MPa	18600	14700
Charpy impact strength	ISO 179-1	kJ/m ²	80	80
Charpy notched impact strength			16	17
Rockwell Hardness (R Scale)	ISO 2039		120	

Thermal properties

Coefficient of linear thermal expansion	ISO 11359-2	10 ^{-5/}	2.5	
Deflection Temperature under load 1.8MPa	ISO 75-1 75-2		225	
Deflection Temperature under load 0.45MPa		250		

Electrical properties

Volume resistivity	IEC 60093	-m	10 ¹³	
Electric strength Thickness: 1mm	IEC 60243-1	MV/m	35	
Dielectric constant 10 ⁶ Hz	IEC 60250			
Dissipation factor 10 ⁶ Hz	IEC 60250			
Comparative tracking Index	IEC 60112			

Other properties

Density	ISO 1183	g/cm ³	1.73	
Water absorption 23 /50%RH equilibrium	ISO 62	%	0.7	
Mold shrinkage flow (Thickness: 3.2mm) transverse		%	0.1	0.3
Flammability	UL-94			

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 .