

UNITIKA NYLON6

Type : Conducting nylon

Property	Standard	Unit	EX - 1020K	
			Dry	Cond.

Mechanical properties

Tensile stress at yield	ISO 527-1 527-2	MPa	54	40
Tensile stress at break				
Tensile modulus		MPa	2600	1200
Tensile strain at yield		%	4.0	
Tensile strain at break			8.0	12
Flexural strength	ISO 178	MPa	80	38
Flexural modulus		MPa	2500	1100
Charpy impact strength	ISO 179-1	kJ/m ²	55	NB
Charpy notched impact strength			7	23
Rockwell Hardness (R Scale)	ISO 2039		110	80

Thermal properties

Coefficient of linear thermal expansion	ISO 11359-2	10 ⁻⁵ /		
Deflection Temperature under load 1.8MPa	ISO 75-1 75-2		66	
Deflection Temperature under load 0.45MPa			147	

Electrical properties

Volume resistivity	IEC 60093	-m	1 × 10 ¹	1 × 10 ¹
Electric strength Thickness: 1mm	IEC 60243-1	MV/m		
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	1.12
Water absorption 23 in water 24h 23 /50%RH equilibrium	ISO 62	%	1.3 2.0
Mold shrinkage flow (Thickness : 3.2mm) transverse		%	1.0 1.2
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 .