

# UNITIKA NYLON6

Type : Mineral-filled (25%) nylon

Property	Standard	Unit	A3130HR - 25	
			Dry	Cond.

## Mechanical properties

Tensile stress at yield	ISO 527-1 527-2	MPa		
Tensile stress at break			70	47
Tensile modulus		MPa	5400	2700
Tensile strain at yield		%		
Tensile strain at break			3.5	4.8
Flexural strength	ISO 178	MPa	108	60
Flexural modulus		MPa	4200	2200
Charpy impact strength	ISO 179-1	kJ/m <sup>2</sup>	52	65
Charpy notched impact strength			3	5
Rockwell Hardness (R Scale)	ISO 2039		119	98

## Thermal properties

Coefficient of linear thermal expansion	ISO 11359-2	10 <sup>-5</sup> /	5.0	
Deflection Temperature under load 1.8MPa	ISO 75-1 75-2		111	
Deflection Temperature under load 0.45MPa			195	

## Electrical properties

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

## Other properties

Density	ISO 1183	g/cm <sup>3</sup>	1.33	
Water absorption 23 in water 24h 23 /50%RH equilibrium	ISO 62	%	1.4 2.1	
Mold shrinkage flow (Thickness: 3.2mm) transverse		%	0.6 ~ 1.0 0.6 ~ 1.0	
Flammability	UL-94		0.75mmt 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 .

