

# Nuts

## Nylon

0080729

0080902



### Specifications

Properties <sup>1)</sup>	Units	Method			High Flow	
		ASTM	ISO	DIN	21SP <sup>6)</sup>	
					D.A.M <sup>2)</sup>	50% R.H <sup>3)</sup>
<b>Mechanical</b>						
Tensile strength at yield	MPa	D 638	527	53455	0.81	62
Elongation at break	%				70	>200
Flexural modulus	MPa	D 790	178	53457	2750	1310
Notched izod impact	kg/m <sup>2</sup>	D 256	180	-	5.3	16
<b>Thermal</b>						
Melting point, DSC	°C	D 3417	3146	-	260	
Maximum peak temperature <sup>4)</sup>		D 648	75/B	53461	230	220
Deflection temperature under load at 1.82MPa			75/A		82	72
Maximum continuous operating temperature (thickness = 1.5mm) <sup>5)</sup>		-	-	-	85	
Coefficient of linear thermal expansion	10 <sup>3</sup> K <sup>4</sup>	D 696	-	53752	8.1	-
<b>Electrical</b>						
Volume resistivity	Ohm.m	D 257	IEC 93	53482	6 x 10 <sup>11</sup>	2 x 10 <sup>11</sup>
Dielectric Constant	10 <sup>2</sup> Hertz	D 150	IEC 250	53483	3.7	6.0
	10 <sup>3</sup> Hertz				3.6	6.0
	10 <sup>4</sup> Hertz				3.1	3.5
Dissipation Factor	10 <sup>2</sup> Hertz	-	-	-	0.02	0.04
	10 <sup>3</sup> Hertz				0.02	0.04
	10 <sup>4</sup> Hertz				0.03	0.08
Comparative tracking-index	M	Volts	D 3638	IEC 112	53480	600 500
<b>Miscellaneous</b>						
Glow wire flammability index (thickness = 1.5mm)	°C	-	IEC 695-2-1/2	VDE 0471 Part 2	850	
Flammability, 0.8mm	UL 94	-	-	-	V-2	
Density	g/cm <sup>3</sup>	D 792	1183	53479	1.14	
Rockwell Hardness	M scale	-	D 795	2039/2	85	60
	R scale				112	105
Mould shrinkage, flow direction	%	Monsanto test			-1.8	
Equilibrium moisture absorption at 23°C, 50% R.H		-	1110	53714	2.5	
Recommended processing melt temperature	°C	-	-	-	-280	

- 1) Values measured at 23°C.
- 2) D.A.M = Dry as moulded.
- 3) 50% R.H = Conditioned to 50% relative humidity at 23°C.
- 4) Maximum peak temperature = Deflection temperature under load at 0.46MPa.
- 5) UL 746B relative temperature impact.
- 6) VYDYNE 21X has sim.

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### Part Number Table

Description	Part Number
Nut, Nylon, M3, PK50	0080729
Nut/Washer, Nylon, M3, PK100	0080902

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