

Nuts

Nylon

0080729

0080902



Specifications

Properties ¹⁾	Units	Method			High Flow		
		ASTM	ISO	DIN	21SP ⁶⁾		
					D.A.M ²⁾	50% R.H ³⁾	
Mechanical							
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 ²	D 256	180	-	5.3	16	
Thermal							
Melting point, DSC	°C	D 3417	3146	-	260		
Maximum peak temperature ⁴⁾		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) ⁵⁾		-	-	-	85		
Coefficient of linear thermal expansion	10 ³ K ⁴	D 696	-	53752	8.1	-	
Electrical							
Volume resistivity	Ohm.m	D 257	IEC 93	53482	6 x 10 ¹¹	2 x 10 ¹¹	
Dielectric Constant	10 ² Hertz	-	D 150	IEC 250	53483	3.7	6.0
	10 ³ Hertz					3.6	6.0
	10 ⁴ Hertz					3.1	3.5
Dissipation Factor	10 ² Hertz	-	-	-	-	0.02	0.04
	10 ³ Hertz					0.02	0.04
	10 ⁴ Hertz					0.03	0.08
Comparative tracking-index	M	Volts	D 3638	IEC 112	53480	600 500	
Miscellaneous							
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 ³	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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