

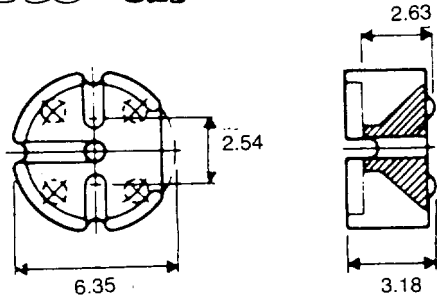


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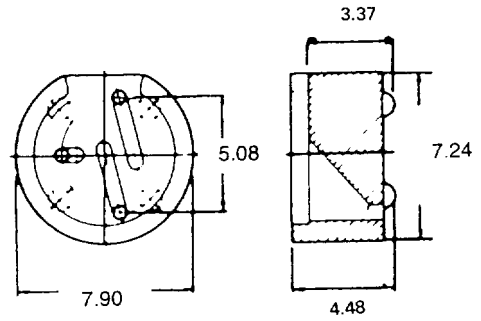
### MPX-02 (P)(N)(D)

170 000 OLD

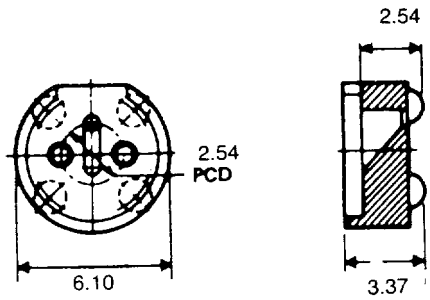


NEW 519960

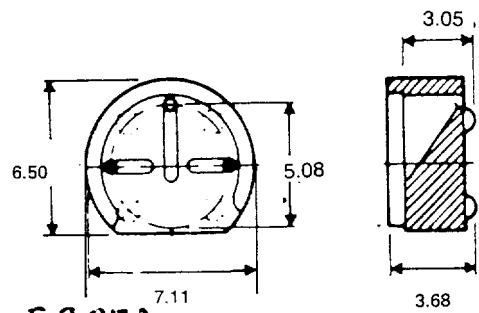
### MPX-03 (D)(N)



### MPX-04 (P)

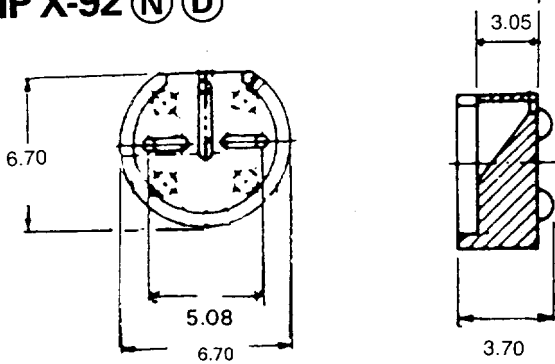


### MPX-05 (D)(N) OLD 170 001



NEW 519972

### MPX-92 (N)(D)



519-960 to 520-007

TECHNICAL TEST RESULTS FOR THE PRINCIPAL NYLON 66 GRADES OF THE 'MARANYL' RANGE

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Att: Robert Eagleton

Property	ISO Spec	DIN Spec	Dry/ <sup>(1)</sup> Conditioned	Units	A100 A101	A108
<b>General</b>						
Relative density	R1183	53479	D	—	1.14	1.15
Water absorption (24 h)	R62A	53495	D	%	1.3	0.9
Glass content	—	—	D	%	—	—
Shore hardness	R868	53505	D	D scale	80	80
			C	D scale	75	75
<b>Mechanical</b>						
Yield stress	R527	53455	D	1 MPa	85	90
			C	1 MPa	60	65
Elongation at break	R527	53455	D	%	50 — 60	25 — 30
			C	%	>100	40 — 50
Flexural strength	R178	53452	D	1 MPa	105	110
			C	1 MPa	40	45
Flexural modulus	R178	53452	D	1 MPa	2800	2900
			C	1 MPa	1000	1100
Torsion modulus	R537	53455	D	1 MPa	1100	1200
			C	1 MPa	600	900
Izod impact strength	R180A	—	D	J/m notch	60	30
			C	J/m notch	250	50
<b>Thermal properties</b>						
Heat distortion temperature <sup>(4)</sup>	R75	53461	D	°C	100	110
Vicat softening point	R306	53460	D	°C	>250	>250
Melting point	R1218	—	D	°C	256	258
Coefficient of linear thermal expansion <sup>(5)</sup>	(IC1 method)	—	D at 23°C	1/K 10 <sup>-5</sup>	9	9
			D at 70°C	1/K 10 <sup>-5</sup>	12	12
<b>Flammability</b>						
Underwriters' Laboratories UL94 rating	—	—	—	at 0.8 mm	V-2	—
				at 1.6 mm	V-2	—
Limiting oxygen index	R4589	—	D	%	26	—
			C	%	29	—
<b>Electrical</b>						
Power factor tan delta	(IEC 250)	—	D	at 50 Hz	0.01	0.01
			D	at 1 kHz	0.03	0.01
Dielectric constant (permittivity)	(IEC 250)	—	D	at 50 Hz	3.9	3.9
			D	at 1 kHz	3.7	3.6
Volume resistivity	(IEC 93)	—	D	ohm m	10 <sup>13</sup>	10 <sup>13</sup>
Tracking index	(IEC 112)	53480	D	KC volts	>600	—
				KB volts	550	—

(1) D = Tested in dry, as moulded condition  
C = Conditioned to 50% r h

(2) These are anisotropic materials and therefore the values obtained depend upon the orientation of the particles of filler

(3) For glass reinforced grades at ambient temperature, the yield point and break point can be regarded as identical, in terms of both stress and elongation.