



A. L. HYDE COMPANY

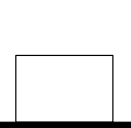
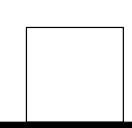
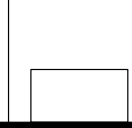
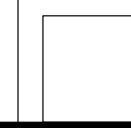
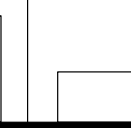
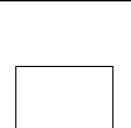
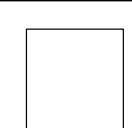
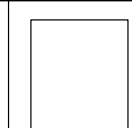
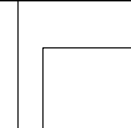

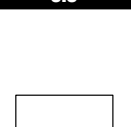

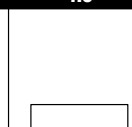
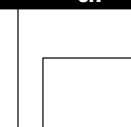

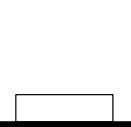
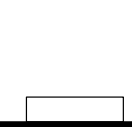
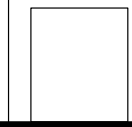

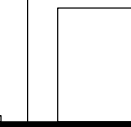
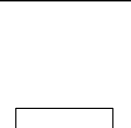
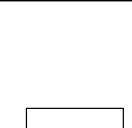
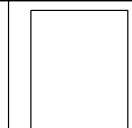
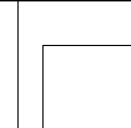
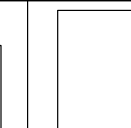
# ACETALS & NYLONS

## Electrical & Miscellaneous Properties

PHYSICAL PROPERTIES	ASTM METHOD	UNITS	COMMON NAME	ACETAL HOMOPOLYMER	ACETAL HOMOPOLYMER	ACETAL COPOLYMER	ACETAL HOMOPOLYMER	ACETAL HOMOPOLYMER
			RESIN TRADE NAME	DELTRIN 1505A	DELTRIN 5505A	ULTRAFORM 4320	DELTRIN 100 AF	DELTRIN 500 AF
			HYDE TRADE NAME					
			CHEMICAL NAME	POLYOXY METHYLENE	POLYOXY METHYLENE	POLYOXY METHYLENE	POLYOXY METHYLENE/TEFLON	POLYOXY METHYLENE/TEFLON
VOLUME RESISTIVITY	D257	OHM-CM	VALUE	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>15</sup>	3 X 10 <sup>16</sup>	3 X 10 <sup>16</sup>
			GRAPHIC VALUE					
DIELECTRIC STRENGTH	D149	V/MIL	GRAPHIC VALUE					
			VALUE	500	500	500	400	400
DIELECTRIC CONSTANT 60 HZ	D150	@ 73° F	GRAPHIC VALUE					
			VALUE	3.7	3.7	3.8	3.1	3.1
DIELECTRIC CONSTANT 1 MHZ	D150	@ 73° F	GRAPHIC VALUE					
			VALUE	3.7	3.7	—	3.1	3.1
DISSIPATION FACTOR 60 HZ	D150	@ 73° F	VALUE	0.005	0.005	0.003	0.009	0.009
			GRAPHIC VALUE					
WATER ABSORPTION/ 24 HRS	D570	%	GRAPHIC VALUE					
			VALUE	0.25	0.25	0.20	0.20	0.20
WATER ABSORPTION/ EQUILIBRIUM	D570	%	GRAPHIC VALUE					
			VALUE	0.90	0.90	0.80	0.72	0.72
FLAMMABILITY	UL94	—	VALUE	HB	HB	HB	HB	HB
			COMMENTS	HIGH IMPACT DELTRIN	GOOD MACHINABILITY	NO POROSITY ACETAL	HIGH IMPACT AF	GOOD MACHINABILITY

# ACETALS & NYLONS

## Electrical & Miscellaneous Properties

PHYSICAL PROPERTIES	ASTM METHOD	UNITS	COMMON NAME	ACETAL HOMOPOLYMER	ACETAL HOMOPOLYMER	NYLON 6/6	CAST NYLON 6	MOLYBDENUM DISULPHIDE FILLED NYLON 6/6
			RESIN TRADE NAME	DELTRIN CL500	DELTRIN 570	ZYTEL 42		
			HYDE TRADE NAME				HYD-CAST NATURAL	
			CHEMICAL NAME	POLYOXY METHYLENE	POLYOXY METHYLENE/ 15% GLASS	POLYHEXAM ETHYLENE ADIPAMIDE	POLYCAPRO LACTAM	POLYHEXAM ETHYLENE ADIPAMIDE
VOLUME RESISTIVITY	D257	OHM-CM						
			VALUE	$5 \times 10^{14}$	$5 \times 10^{14}$	$10^{15}$	$10^{15}$	$25 \times 10^{13}$
DIELECTRIC STRENGTH	D149	V/MIL	GRAPHIC VALUE					
			VALUE	400	490	350	380	350
DIELECTRIC CONSTANT 60 HZ	D150	@ 73° F	GRAPHIC VALUE					
			VALUE	3.5	3.9	4.0	3.7	—
DIELECTRIC CONSTANT 1 MHZ	D150	@ 73° F	GRAPHIC VALUE					
			VALUE	3.5	—	3.4	3.7	—
DISSIPATION FACTOR 60 HZ	D150	@ 73° F						
			VALUE	0.006	0.005	0.01	0.02	—
WATER ABSORPTION/ 24 HRS	D570	%	GRAPHIC VALUE					
			VALUE	0.27	0.25	1.2	0.6	1.2
WATER ABSORPTION/ EQUILIBRIUM	D570	%	GRAPHIC VALUE					
			VALUE	1.00	1.00	8.5	6.0	8.5
FLAMMABILITY	UL94	—						
			VALUE	HB	HB	HB	V-2	HB
COMMENTS				CHEMICAL LUBRICATED LOW COEFFICIENT OF FRICTION	HIGH STRENGTH	NATURAL UNFILLED NYLON	BROAD RANGE OF SIZES	IMPROVED WEAR RESISTANCE

# ACETALS & NYLONS

## Electrical & Miscellaneous Properties

PHYSICAL PROPERTIES	ASTM METHOD	UNITS	COMMON NAME	OIL FILLED CAST NYLON 6	NYLON 6/12	NYLON ST801	NYLON 13% GLASS FILLED
			RESIN TRADE NAME		ZYTEL 159L	SUPER TOUGH NYLON 801	ZYTEL 70 G 13L
			HYDE TRADE NAME	HYD-CAST OFN			
			CHEMICAL NAME	POLYCAPROLACTAM	POLYHEXAMETHYLENE ADIPAMIDE	POLYHEXAMETHYLENE ADIPAMIDE	POLYHEXAMETHYLENE ADIPAMIDE/13% GLASS
VOLUME RESISTIVITY	D257	OHM-CM					
			VALUE	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>14</sup>	10 <sup>16</sup>
DIELECTRIC STRENGTH	D149	V/MIL	GRAPHIC VALUE				
			VALUE	380	—	—	440
DIELECTRIC CONSTANT 60 HZ	D150	@ 73° F	GRAPHIC VALUE				
			VALUE	3.7	4.0	3.2	—
DIELECTRIC CONSTANT 1 MHZ	D150	@ 73° F	GRAPHIC VALUE				
			VALUE	3.7	3.5	2.9	—
DISSIPATION FACTOR 60 HZ	D150	@ 73° F	GRAPHIC VALUE				
			VALUE	—	0.02	0.01	0.02
WATER ABSORPTION/ 24 HRS	D570	%	GRAPHIC VALUE				
			VALUE	0.5	0.25	1.2	—
WATER ABSORPTION/ EQUILIBRIUM	D570	%	GRAPHIC VALUE				
			VALUE	5.0	3.0	6.70	7.1
FLAMMABILITY	UL94	—	GRAPHIC VALUE				
			VALUE	V-2	HB	HB	—
COMMENTS				GOOD LUBRICITY	LOW MOISTURE GRADE	GOOD IMPACT TOUGH	HIGH STRENGTH