



A. L. HYDE COMPANY

WEAR PROPERTIES

TEST			ASTM METHOD	UNITS	COMMON NAME	ACETAL HOMOPOLYMER	ACETAL COPOLYMER	ACETAL HOMOPOLYMER	ACETAL HOMOPOLYMER
					RESIN TRADE NAME	DELTRIN 150SA	ULTRAFORM 4320	DELTRIN AF	DELTRIN CL500
					HYDE TRADE NAME				
					CHEMICAL NAME				
COEFFICIENT OF FRICTION	LOWER NUMBER BETTER LUBRICITY	DYNAMIC	GRAPHIC VALUE		0.35				
					0.30				
					VALUE	0.25	0.25	0.14	0.25
COMPARITIVE ABRASION/ RESISTANCE	LOWER NUMBER BETTER RESISTANCE		GRAPHIC VALUE		200				
					150				
					VALUE	135	135	—	—
COMPARITIVE ROTATIONAL WEAR	HIGHER NUMBER BETTER LONGEVITY		GRAPHIC VALUE		40				
					30				
					VALUE	2.7	2.7	11.5	12.0
COMPARITIVE SLIDE WEAR	LOWER NUMBER BETTER LIFE	IN ³ - MIN FT/LB/HR	GRAPHIC VALUE		200				
					150				
					VALUE	216	216	65	22

TEST			ASTM METHOD	UNITS	COMMON NAME	NYLON 6/6	MOLYBDENUM DISULPHIDE FILLED NYLON 6/6	NYLON 6	NYLON ST801
					RESIN TRADE NAME	ZYTEL 42		OIL FILLED CAST NYLON	ST801
					HYDE TRADE NAME			HYDCAST	
					CHEMICAL NAME				
COEFFICIENT OF FRICTION	LOWER NUMBER BETTER LUBRICITY	DYNAMIC	GRAPHIC VALUE		0.35				
					0.30				
					VALUE	0.35	0.35	0.15	0.29
COMPARITIVE ABRASION/ RESISTANCE	LOWER NUMBER BETTER RESISTANCE		GRAPHIC VALUE		200				
					150				
					VALUE	—	50	—	—
COMPARITIVE ROTATIONAL WEAR	HIGHER NUMBER BETTER LONGEVITY		GRAPHIC VALUE		40				
					30				
					VALUE	—	3.0	6.0	—
COMPARITIVE SLIDE WEAR	LOWER NUMBER BETTER LIFE	IN ³ - MIN FT/LB/HR	GRAPHIC VALUE		200				
					150				
					VALUE	72	83	11.0	200

WEAR PROPERTIES

			COMMON NAME	NYLON/ KEVLAR	PEEK	PEEK	PBT
			RESIN TRADE NAME		PEEK	PEEK BEARING GRADE	CELENEX 1700A
			HYDE TRADE NAME	HYDLAR Z			HYDEX 4101
			CHEMICAL NAME				
TEST	ASTM METHOD	UNITS					
COEFFICIENT OF FRICTION	LOWER NUMBER BETTER LUBRICITY	DYNAMIC	GRAPHIC VALUE				
			VALUE	0.28	0.34	0.20	0.35
COMPARITIVE ABRASION/ RESISTANCE	LOWER NUMBER BETTER RESISTANCE		GRAPHIC VALUE				
			VALUE	—	56	97	—
COMPARITIVE ROTATIONAL WEAR	HIGHER NUMBER BETTER LONGEVITY		GRAPHIC VALUE				
			VALUE	5.0	20.0	45.0	2.8
COMPARITIVE SLIDE WEAR	LOWER NUMBER BETTER LIFE	IN ³ - MIN FT/LB/HR	GRAPHIC VALUE				
			VALUE	128	200	10	68