



HYDEX® 4101 & 4101L

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HYDEX® 4101 & 4101L (lubricated) is a very stable chemical compound that can withstand high impact without deterioration. It is approved for direct

contact with food by the FDA and is ideal for machined parts in food processing equipment.

HYDEX® 4101 has excellent resistance to typical cleaning

chemicals such as chlorine and caustic solutions and has a very low moisture absorption rate, as much as 15 times less than nylon.

- Good chemical resistance properties
- High impact strength
- FDA Approved for use in food processing
- A wear factor up to 50% better than PET-P
- Very low moisture absorption rate
- Excellent machining qualities
- No center line porosity

HYDEX® 4101 & 4101L (lubricated) exhibits a broad range of outstanding properties for a variety of applications, especially in the food processing industry. It is ideal for applications such as cams, bearings, gears, food pistons, wear strips, scraper blades, valve bodies and conveyor components.

TYPICAL PROPERTY VALUES

	PROPERTIES	ASTM Test Method	Units	HYDEX® 4101	HYDEX® 4101L
PHYSICAL	Density	-	-	-	-
	Specific Gravity	D792	-	1.31	1.36
	Water Absorption, @24 hours	D570	%	0.07	0.07
MECHANICAL	Tensile Strength	D638	psi	9,400	7,200
	Tensile Modulus	D638	psi	425,000	380,000
	Tensile Elongation	D638	%	50	40
	Flexural Modulus, 73°F	D790	psi	420,000	390,000
	Notched Izod Impact	D256	ft-lbs/in	0.7	0.7
	Dynamic Coefficient of Friction (Steel)	LNP EPALP-TB001	-	0.25	0.11
	Wear Factor @2000 PV	LNP EPALP-TB001	in ³ -min/ft-lbs/hr	210	38
	Static Coefficient of Friction (Steel)	LNP EPALP-TB001	-	0.19	0.08
	LPV @ 100 fpm	LNP EPALP-TB003	psi-fpm	6,000	15,700
THERMAL	Heat Deflection Temperature @ 264 psi	D648	°F	200	195
	Maximum Continuous Use Temperature	UL746B	°F	221	221
COMPLIANT	FDA Compliant	-	-	YES	YES
	3A Compliant	-	-	YES	YES
	USDA Compliant	-	-	YES	YES

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MATERIAL AVAILABILITY

Rods: Diameters: 3/16" to 4 3/4", - 10' length
Length: 5" and greater - 5' length

Plates: 1/4" to 2" thickness inclusive are 24" x 48"

HYDEX® 4101:

Primary Specification (Resin) (Typical)

ASTM-D-5927 TPES0111

Shapes Specification (Typical)

ASTM-D-6261 S-PES0111

HYDEX® 4101L:

Primary Specification (Resin) (Typical)

None

Shapes Specification (Typical)

ASTM-D-6261 S-PES0120

Profiles, tubes, and special sizes are custom-produced on request.



DISTRIBUTED BY

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