

Ensinger HYDEX® 4101 Polybutylene Terephthalate (PBT)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Impact Grade

Material Notes:

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 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. Information Provided by Ensinger Industries, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-HYDEX-4101-Polybutylene-Terephthalate-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	64.8 MPa	9400 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Tensile Modulus	2.93 GPa	425 ksi	ASTM D638
Flexural Modulus	2.90 GPa @Temperature 22.8 °C	420 ksi @Temperature 73.0 °F	ASTM D790
Izod Impact, Notched	0.374 J/cm	0.700 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.25	0.25	vs Steel; LNP EPALP-TB001
Coefficient of Friction, Static	0.19	0.19	Steel; LNP EPALP-TB001
K Factor (Wear Factor)	210	210	in⁵-min/ft-lbs/hr, at 2000 PV; LNP EPALP-TB001
Limiting Pressure Velocity	0.210 MPa-m/sec	6000 psi-ft/min	LNP EPALP-TB003, at 100 ft/min

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	105 °C	221 °F	UL 746B

Deflection Temperature at 1.8 MPa (10% def)	82.2°C	English	Comments
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Descriptive Properties	Value	Comments
3A Compliant	YES	
FDA Complaint	YES	
USDA Compliant	YES	

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