ODERN *plastic*s "Setting the Standards in Plastics Distribution"™

88 Long Hill Cross Road, Shelton, Connecticut, 06484 USA ModernPlastics.com - National Toll-Free: 800.243.9696 Phone: 203.333.3128 - Fax: 203.333.4625 sales@modernplastics.com ISO 9001:2008 and ISO 13485:2003 Certified

HYDEX 4101 UD Blue - Stock Shapes

Chemical Designation

PBT (Polybutylene terephthalate)

Colour blue

Density

1.59 g/cm³

Fillers

detectable filler

Main features

- → resistent to cleaning agents
- → food grade blue
- → good chemical resistance
- → good dimensional stability

- → good impact strength
- → metal detectable
- → x-ray opaque

Target Industries

- → food engineering
- → food processing
- → conveyor technology
- packaging and paper machinery

Mechanical properties	condition	value		test method		comment
Modulus of elasticity (tensile test)	@ 73 °F	550,000	psi	ASTMD 638		
Tensile strength	@ 73 °F	9,300	psi	ASTMD 638		
Elongation at break	@ 73 °F	3.53	%	ASTMD 638		
Flexural strength	@ 73 °F	15,250	psi	ASTMD 790		
Modulus of elasticity (flexural test)	@ 73 °F	556,150	psi	ASTMD 790		
Compression strength	@ 73 °F, 10% strain	13,760	psi	ASTMD 695		
Compression modulus	@ 73 °F	346,360	psi	ASTMD 695		
Impact strength (Izod)	Notched	0.58	ft-lbs/in	ASTMD 256		
Rockwell hardness	M-Scale	92	_	ASTM D 785		
Thermal properties	condition	value		test method		comment
Melting temperature		437	°F	-		 (1) Injection molded samples (2) Injection molded samples (3) Per UL 746B (4) Injection molded samples
Deflection temperature	@ 66 psi	393	°F	ASTM D 648	1)	
Deflection temperature	@ 264 °F	275	°F	ASTM D 648	2)	
Service temperature		221	°F	-	3)	
Thermal expansion (CLTE)		4.05	*10 ⁻⁵ in/in/°F	ASTM D 696	4)	

This information reflects the current state of our knowledge and is intended only to assist and advise. It is given without obligation or liability. It does not assure or guarantee chemical resistance, quality of products or their suitability in any legally binding way. Values are not minimum or maximum values, but guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Testing under individual application circumstances is always recommended. Data is obtained from extruded shapes material unless otherwise noted. References to FDA compliance refer to the resins from which the products were made unless otherwise noted. All trade and patent rights should be observed. All rights reserved. Data sheet values are subject to periodic review, the most recent update can be found at www.ensinger-inc.com.



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