

TECAFINE[®] LDPE - Stock Shapes

Chemical Designation

PE-LD (Polyethylene)

Colour

white translucent

Density

0.92 g/cm³

Main features

- broad chemical compatibility
- easy to machine
- good impact strength
- low moisture absorption

Target Industries

- food processing
- home appliances
- conveyor technology
- chemical technology
- automotive industry

Mechanical properties	condition	value		test method		comment
Modulus of elasticity (tensile test)	@ 73 °F	30,000	psi	ASTM D 638		(1) publicly available resin data
Tensile strength at yield	@ 73 °F	1,420	psi	ASTM D 638		
Elongation at break	@ 73 °F	90	%	ASTM D 638		
Modulus of elasticity (flexural test)		34000	psi	ASTM D 790	1)	
Compression strength	10% strain	1800	psi	ASTM D 695		
Thermal properties	condition	value		test method		comment
Vicat softening point		194	°F	ASTM D 1525	1)	(1) resin data
Deflection temperature	@ 66 psi	108	°F	ASTM D 648	2)	(2) publicly available resin data
Service temperature	Long Term Max	122	°F	-		(3) publicly available resin data
Service temperature	ASTM D 746 Brittleness Temperature	-105	°F	-	3)	
Electrical properties	condition	value		test method		comment
Specific surface resistance		10 ¹³	Ω/square	ASTM D 257	1)	(1) publicly available resin data
Volume resistivity		> 10 ¹⁵	Ω*cm	ASTM D 257	2)	(2) publicly sourced resin data

→ Resin specification:
 ASTM D4976-06 PE235
 Shapes specification:
 NONE

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.