

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

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Date: 2015/02/27

Version:

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