

TECAFINE® LDPE natural - Stock Shapes (rods, plates, tubes)

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

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
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	
Tensile strength at break	@ 73 °F	1,150	psi	ASTM D 638	
Elongation at break (tensile test)	@ 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	
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
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) (3) publicly available resin data
Service temperature	ASTM D 746 Brittleness Temperature	-105	°F	-	
<i>Electrical properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
surface resistivity		10 ¹³		ASTM D 257	1) (1) publicly available resin data
volume resistance		> 10 ¹⁵		ASTM D 257	2) (2) publicly sourced resin data

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

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Date: 2016/12/30

Version: A0