

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

Chemical Designation

PE (Polyethylene)

Colour

white translucent

Density

0.95 g/cm³

Main features

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

Target Industries

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

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>	<i>test method</i>	<i>comment</i>
Modulus of elasticity (tensile test)	@ 73 °F	140,000 psi	ASTM D 638	
Tensile strength at yield	@ 73 °F	3,700 psi	ASTM D 638	
Elongation at break (tensile test)	@ 73 °F	>100 %	ASTM D 638	
Flexural strength	@ 73 °F	4,000 psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73 °F	140,000 psi	ASTM D 790	
Impact strength (Izod)	@ 73 °F	1.94 ft-lbs/in	ASTM D 256	
Rockwell hardness	R Scale	54	ASTM D 785	
Shore hardness	D Hardness	67	ASTM D 2240	
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>	<i>test method</i>	<i>comment</i>
Vicat softening point		261 °F	ASTM D 1525	1) (1) publicly sourced resin data
Deflection temperature	@ 66 psi	167 °F	ASTM D 648	2) (2) publicly sourced resin data
Service temperature	Long Term Max	248 °F	-	3) (3) publicly sourced resin data
Service temperature	Brittleness Temperature	-105 °F	-	4) (4) ASTM D 746 publicly sourced resin data

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

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