

## TECAFINE ® HDPE - Stock Shapes

### Chemical Designation

PE (Polyethylene)

### Colour

white translucent

### Density

0.95 g/cm<sup>3</sup>

### 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	85,000	psi	ASTMD 638	
Tensile strength at yield	@ 73 °F	3,400	psi	ASTMD 638	
Elongation at break	@ 73 °F	>100	%	ASTMD 638	
Flexural strength	@ 73 °F	3,800	psi	ASTMD 790	
Modulus of elasticity (flexural test)	@ 73 °F	120,000	psi	ASTMD 790	
Impact strength (Izod)	@ 73 °F	1.94	ft-lbs/in	ASTMD 256	
Rockwell hardness	R Scale	54		ASTMD 785	
Shore hardness	D Hardness	67		ASTMD 2240	
Thermal properties	condition	value		test method	comment
Vicat softening point		261	°F	ASTMD 1525	
Deflection temperature	@ 66 psi	75	°F	ASTMD 648	
Service temperature	Long Term Max	248	°F	-	
Service temperature	Long Term Min	-148	°F	-	

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

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