

TECAFINE® HDPE

High Density Polyethylene
Ensinger Inc.

Message:

- Broad chemical compatibility
- Easy to machine
- Good impact strength
- Low moisture absorption

General Information			
Features	Low hygroscopicity		
	High density		
	Impact resistance, good		
	Machinable		
Agency Ratings	ASTM D 4976-PE235		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ASTM D1505
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	54		ASTM D785
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	586	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	23.4	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	> 100	%	ASTM D638
Flexural Modulus (23°C)	827	MPa	ASTM D790
Flexural Strength (23°C)	26.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	23.9	°C	ASTM D648
Vicat Softening Temperature	127	°C	ASTM D1525
Service Temperature			
Long Term Max.	120	°C	
Long Term Min.	-100	°C	
Additional Information			

Data is obtained from extruded shapes material unless otherwise noted.

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Recommended distributors for this material

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