

## TIVAR PolySteel

## TIVAR PolySteel, high specific gravity UHMW-PE

Metric	English	Comments
1.45 g/cc	0.0524 lb/in <sup>3</sup>	ASTM D792
Max 0.01 %	Max 0.01 %	Immersion, 24hr; ASTM D570(2)
Max 0.01 %	Max 0.01 %	Immersion; ASTM D570(2)
64	64	ASTM D2240
19.3 MPa	2800 psi	ASTM D638
125 %	125 %	ASTM D638
0.703 GPa	102 ksi	ASTM D638
0.752 GPa	109 ksi	ASTM D790
24.8 MPa	3600 psi	10% Def., 73°F; ASTM D695
0.579 GPa	84 ksi	ASTM D695
0.14	0.14	Dry vs. Steel; QTM55007
Min 1e+010 ohm	Min 1e+010 ohm	ASTM D257
127 °C	260 °F	Crystalline, Peak; ASTM D3418
82.2 °C	180 °F	Long Term
НВ	HB	1/8 inch
Not Compliant		
3		1-10, 1=Easier to Machine
Acceptable		
Acceptable		
Unacceptable		
Acceptable		
Limited		
Limited		
Limited		
Acceptable		
Limited		
Acceptable		
Acceptable		
	1.45 g/cc Max 0.01 % Max 0.01 %  64 19.3 MPa 125 % 0.703 GPa 0.752 GPa 24.8 MPa 0.579 GPa 0.14  Min 1e+010 ohm  127 °C 82.2 °C HB  Not Compliant 3 Acceptable Acceptable Limited Limited Limited Limited Acceptable	1.45 g/cc

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