

## Quadrant EPP TIVAR® 1000 Virgin (Natural & Color except Black) UHMW-PE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), UHMW PE Ultra High Molecular Weight

Material Notes:

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Quadrant-EPP-TIVAR-1000-Virgin-Natural-Color-except-Black-UHMW-PE.php](http://www.lookpolymers.com/polymer_Quadrant-EPP-TIVAR-1000-Virgin-Natural-Color-except-Black-UHMW-PE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.930 g/cc	0.930 g/cc	ASTM D792
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Water Absorption at Saturation	0.010 %	0.010 %	ASTM D570 2

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D2240
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Tensile Strength	40.0 MPa	5800 psi	ASTM D638
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Tensile Modulus	0.552 GPa	80.0 ksi	ASTM D638
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Flexural Strength	24.1 MPa	3500 psi	ASTM D790
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Compressive Strength	20.7 MPa	3000 psi	ASTM D695
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Compressive Modulus	0.552 GPa	80.0 ksi	ASTM D695
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Shear Strength	33.1 MPa	4800 psi	ASTM D732
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Coefficient of Friction, Dynamic	0.12	0.12	QTM 55007
Sand Slurry	10	10	1018 Steel = 100; ASTM D4020
Limiting Pressure Velocity	0.105 MPa-m/sec	3000 psi-ft/min	(with 4:1 safety factor applied); QTM 55007

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.409 W/m-K	2.84 BTU-in/hr-ft <sup>2</sup> -°F	ASTM E 1530-11

Thermal Properties	Metric	English	Comments <sup>8</sup>
Electrical Properties	Metric	English	Comments
Dielectric Strength	45.3 kV/mm	1150 kV/in	ASTM D149

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China