Quadrant EPP TIVAR® PolySteel

Ultra High Molecular Weight Polyethylene

Quadrant Engineering Plastic Products

Message:

Quadrant EPP TIVAR® PolySteel is an Ultra High Molecular Weight Polyethylene product. It is available in North America.
Characteristics include:
Flame Rated
Chemical Resistant
High Molecular Weight

General Information	
Features	Acid Resistant
	Alcohol Resistant
	Alkali Resistant
	High Specific Gravity
	Hydrocarbon Resistant
	Machinable
	Solvent Resistant
	Ultra High Molecular Weight
Forms	Preformed Parts
	Profiles
	Rod
	Sheet
	Tubing

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	< 0.010	%	
Saturation	< 0.010	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	703	MPa	ASTM D638
Tensile Strength (Ultimate)	19.3	MPa	ASTM D638
Tensile Elongation (Break)	130	%	ASTM D638
Flexural Modulus	752	MPa	ASTM D790
Compressive Modulus	579	MPa	ASTM D695
Compressive Strength (10% Strain,23°C)	24.8	MPa	ASTM D695
Coefficient of Friction (vs. Steel - Static)	0.14		Internal Method

Thermal	Nominal Value	Unit	Test Method
Maximum Use Temperature - Long Term, Air	82	°C	
Peak Crystallization Temperature (DSC)	127	°C	ASTM D3418
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+10	ohms	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.18 mm, Estimated Rating)	HB		UL 94

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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