Quadrant EPP TIVAR® DockGuard

Ultra High Molecular Weight Polyethylene

Quadrant Engineering Plastic Products

Message:

Quadrant EPP TIVAR® DockGuard 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
	Hydrocarbon Resistant
	Machinable
	Solvent Resistant
	Ultra High Molecular Weight
Forms	Preformed Parts
	Profiles
	Rod
	Sheet
	Tubing

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	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)	66		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	800	MPa	ASTM D638
Tensile Strength (Ultimate)	40.0	MPa	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Flexural Modulus	800	MPa	ASTM D790
Flexural Strength (Yield)	26.2	MPa	ASTM D790
Compressive Modulus	689	MPa	ASTM D695
Compressive Strength (10% Strain,23°C)	22.8	MPa	ASTM D695
Shear Strength	33.1	MPa	ASTM D732

Coefficient of Friction (vs. Steel - Static)	0.12		Internal Method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	46.7	°C	ASTM D648
Maximum Use Temperature - Long Term, Air	82	°C	
Limiting Pressure Velocity [1]	0.0701	MPa·m/s	Internal Method
Peak Melting Temperature	135	°C	ASTM D3418
CLTE - Flow (-40 to 149°C)	3.6E-4	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+14	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm, Estimated Rating)	HB		UL 94
NOTE			
1.	4:1 safety factor		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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