

Quadrant EPP TIVAR® Oil Filled

Ultra High Molecular Weight Polyethylene

Quadrant Engineering Plastic Products

Message:

Quadrant EPP TIVAR® Oil Filled is an Ultra High Molecular Weight Polyethylene product. It is available in North America. Typical application: Food Contact Applications.
Characteristics include:
Flame Rated
Chemical Resistant
High Molecular Weight
Lubricated

General Information			
Additive	Perfluoropolyether Oil Lubricant		
Features	Acid Resistant		
	Alcohol Resistant		
	Alkali Resistant		
	Hydrocarbon Resistant		
	Lubricated		
	Machinable		
	Solvent Resistant		
	Ultra High Molecular Weight		
Agency Ratings	FDA Unspecified Rating		
Forms	Preformed Parts		
	Profiles		
	Rod		
	Sheet		
	Tubing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.935	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	524	MPa	ASTM D638
Tensile Strength (Ultimate)	40.0	MPa	ASTM D638
Tensile Elongation (Break)	280	%	ASTM D638
Flexural Modulus	441	MPa	ASTM D790

Flexural Strength (Yield)	22.1	MPa	ASTM D790
Compressive Modulus	290	MPa	ASTM D695
Compressive Strength (10% Strain,23°C)	18.6	MPa	ASTM D695
Coefficient of Friction (vs. Steel - Static)	0.14		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 Crystallization Temperature (DSC)	135	°C	ASTM D3418
CLTE - Flow ² (-40 to 149°C)	3.4E-4	cm/cm/°C	ASTM E831
Thermal Conductivity	0.41	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Dielectric Strength ³	91	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.30		ASTM D150
Dissipation Factor (1 MHz)	5.0E-4		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm, Estimated Rating)	HB		UL 94
NOTE			
1.	4:1 safety factor		
2.	68°F		
3.	Method A (Short-Time)		

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