Quadrant EPP TIVAR® 88-2

Ultra High Molecular Weight Polyethylene

Quadrant Engineering Plastic Products

Message:

Quadrant EPP TIVAR® 88-2 is an Ultra High Molecular Weight Polyethylene product. It is available in North America. Typical application: Bags/Liners.
Characteristics include:
Flame Rated
Chemical Resistant
High Molecular Weight
Lubricated

General Information	
Additive	Lubricant
Features	Acid Resistant Alcohol Resistant Alkali Resistant Hydrocarbon Resistant Lubricated Machinable Solvent Resistant Ultra High Molecular Weight
Uses	Liners
Forms	Preformed Parts Profiles Rod Sheet Tubing

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.933	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	669	MPa	ASTM D638
Tensile Strength (Ultimate)	37.9	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Flexural Modulus	724	MPa	ASTM D790
Flexural Strength (Yield)	20.7	MPa	ASTM D790

Compressive Modulus	552	MPa	ASTM D695
Compressive Strength (10% Strain,23°C)	20.0	MPa	ASTM D695
Coefficient of Friction (vs. Steel - Static)	0.080		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)	3.6E-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)		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT