Quadrant EPP TIVAR® DrySlide

Ultra High Molecular Weight Polyethylene

Quadrant Engineering Plastic Products

Message:

TIVAR DrySlide is a modified grade of UHMW polymer that has been custom blended to provide a reduced coefficient of friction and enhanced surface lubricity. This reduction in surface coefficient of friction enables TIVAR DrySlide to offer unique advantages for applications in the parcel handling industry where maximum surface lubricity is required. TIVAR DrySlide is static reduced and UV stabilized.

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	Durometer Hardness (Shore D)	64		ASTM D2240		
Tensile Modulus 800 MPa ASTM D638	Mechanical	Nominal Value	Unit	Test Method		
	Tensile Modulus	800	MPa	ASTM D638		
Tensile Strength (Ultimate)33.1MPaASTM D638	Tensile Strength (Ultimate)	33.1	MPa	ASTM D638		

Tensile Elongation (Break)	200	%	ASTM D638
Flexural Modulus	731	MPa	ASTM D790
Flexural Strength (Yield)	21.4	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)	3.4E-4	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 to 1.0E+9	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm, Estimated Rating)	НВ		UL 94
NOTE			
1.	4:1 safety factor		
2.	68°F		

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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

