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.

General Information	
Additive	Antistatic
	Lubricant
	UV Stabilizer
Features	Acid Resistant
	Alcohol Resistant
	Alkali Resistant
	Antistatic
	ESD Protection
	Good UV Resistance
	Hydrocarbon Resistant
	Lubricated
	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)	64		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	800	MPa	ASTM 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)	HB		UL 94
NOTE			
1.	4:1 safety factor		
2.	68°F		

Recommended distributors for this material

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