

Quadrant EPP TIVAR® Dockguard Uniblend

Ultra High Molecular Weight Polyethylene

Quadrant Engineering Plastic Products

Message:

Quadrant EPP TIVAR® Dockguard Uniblend is an Ultra High Molecular Weight Polyethylene product. It is available in North America.

Characteristics include:

Flame Rated

Eco-Friendly/Green

High Molecular Weight

General Information	
Recycled Content	Yes
Features	Ultra High Molecular Weight
Forms	Preformed Parts
	Profiles
	Rod
	Sheet
	Tubing

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm ³	ASTM D792
Water Absorption			ASTM D570
24 hr	< 0.010	%	
Saturation	< 0.010	%	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	800	MPa	ASTM D638
Tensile Strength (Ultimate)	37.9	MPa	ASTM D638
Tensile Elongation (Break)	250	%	ASTM D638
Flexural Modulus	800	MPa	ASTM D790
Flexural Strength (Yield)	24.8	MPa	ASTM D790
Compressive Modulus	689	MPa	ASTM D695
Compressive Strength (10% Strain,23°C)	22.8	MPa	ASTM D695
Coefficient of Friction	0.15		ASTM D1894
Abrasion ¹	13		ASTM D4020

Maximum Use Temperature - Long Term, Air	82	°C	
Limiting Pressure Velocity ²	0.0701	MPa · m/s	Internal Method

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ASTM D256A

Thermal	Nominal Value	Unit	Test Method
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Deflection Temperature Under Load (1.8 MPa, Unannealed)	46.7	°C	ASTM D648
Peak Crystallization Temperature (DSC)	127	°C	ASTM D3418
CLTE - Flow ³ (-40 to 149°C)	1.6E-4	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm, Estimated Rating)	HB		UL 94
NOTE			
1.	Sand Slurry; 1018 Steel = 100		
2.	4:1 safety factor		
3.	68°F		

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