

OSAAP

PLASTICLEAN ESD

OTHER

Description	Value
Material Type	Semi-Crystalline Thermoplastic
Chemical Name	UHMW-PE Ultra High Molecular Weight Polyethylene
Trade Name	TIVAR® 88 ESD UHMW-PE
Additives	Proprietary ESD Additives
Color	Black
Manufacturer	Quadrant

PHYSICAL:

Property	Test	Unit of Measure	Value
Density	ASTM D792	g/cm ³	0.945
	ASTM D792	lb/in ³	0.034
Water Absorption, 24 hrs, Immersion	ASTM D570	% by wt	<.01
Water Absorption, Saturation, Immersion	ASTM D570	% by wt.	<.01

MECHANICAL:

Property	Test	Unit of Measure	Value
Tensile Strength	ASTM D638	psi	4,800
Tensile Modulus	ASTM D638	psi	124,000
Tensile Elongation at Break	ASTM D638	%	250
Flexural Strength	ASTM D790	psi	3,300
Flexural Modulus	ASTM D790	psi	112,000
Comprehensive Strength	ASTM D695	psi	3,000
Comprehensive Modulus	ASTM D695	psi	87,000
Hardness	ASTM D785	NA	Shore D67
IZOD Impact-Notched	ASTM D256 TypeA	ft-lb/in	No Break
Dynamic Coefficient of Friction	QTM 55007 (Dry vs Steel)	NA	0.14
Limiting PV	QTM 55007	psi-fpm	4,000

THERMAL:

Property	Test	Unit of Measure	Value
Coefficient of Linear Thermal Expansion	ASTM D696	X 10-5 in./in./°F	
Heat Deflection Temp	ASTM D648	°C at 264 psi	46
	ASTM D648	°F at 264 psi	116
Melting Point Temp	ASTM D3418		
	ASTM D3418		
Max Continuous Operating Temp		°C	82
		°F	180
Minimum Operating Temp		°C	
Flammability Rating	UL94	NA	HB

ELECTRICAL:

Property	Test	Unit of Measure	Value
Surface Resistivity	ASTM D257	ohm/square	10 ⁵ - 10 ⁹

COMPLIANCE:

Description	Value
FDA	NO
USDA	NO
NSF	NO
3-A Dairy	NO
Canadian Food Inspection Agency	NO
USP Class VI	NO

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