



## UHMW CleanStat™

Meets requirements of FDA regulation 21CFR177.1520, item 2.1 and 2.2, for articles intended for direct and indirect food contact usage and regulation 21CFR178.3297 governing pigments and food contact usage. CleanStat™ also meets 3-A Dairy, 20-21.

### Physical Properties

Property	Method	SI Unit	SI Value	English Unit	English Value
Density	ASTM D-792	kg/m <sup>3</sup>	940	lbs/ft <sup>3</sup>	58.7
Yield Point	ASTM D-638	MPa	21.2	psi	3075
Elongation at Yield	ASTM D-638	%	15	%	15
Tensile Break	ASTM D-638	MPa	35.6	psi	5163
Elongation at Break	ASTM D-638	%	200	%	200
Tensile Modulus	ASTM D-638	MPa	820	psi	118900
Flexural Modulus	ASTM D-790	MPa	760	psi	110230
Izod Impact	ASTM D-4020	kJ/m <sup>2</sup>	41	ft-lbs/in <sup>2</sup>	20
Tensile Impact	DIN 53448	kJ/m <sup>2</sup>	1475	ft-lbs/in <sup>2</sup>	702
Sand Wheel Wear	ASTM G-65,	T-1000=100	130	T-1000=100	130
Hardness	ASTM D-2240	Type D	68	Type D	68
Static Friction	ASTM D-1894	Unitless	0.15	Unitless	0.15
Dynamic Friction	ASTM D-1894	Unitless	0.12	Unitless	0.12
Coefficient of Thermal Exp.	ASTM D-696	°C <sup>-1</sup>	0.00018	°F <sup>-1</sup>	0.00011
Melt Point	ASTM D-3417	°C	137-143	°F	278-289
Compressive Modulus	ASTM D-621	MPa	536	psi	77750
Compressive Deformation	ASTM D-621	% at 454.5 kg	'6-8	% at 1000 psi	6-8
Volume Resistivity	ASTM D-257	Ohm-cm	10 <sup>7</sup> -10 <sup>10</sup>	Ohm-cm	10 <sup>7</sup> -10 <sup>10</sup>
Surface Resistivity	ASTM D-257	Ohm	10 <sup>7</sup> -10 <sup>10</sup>	Ohm	10 <sup>7</sup> -10 <sup>10</sup>
Water Absorption	ASTM D-570	%	nil	%	nil

\* Values are averages and are not specifications.

\*\* ASTM test methods are under current procedures.

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