



UHMW DrySlide

Coefficient of Friction and Static Properties

UHMW 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 UHMW DrySlide to offer unique advantages for applications in the parcel handling industry where maximum surface lubricity is required. UHMW DrySlide is static reduced and UV stabilized.

Physical Properties

Property	Method	SI Unit	SI Value	English Unit	English Value
Density	ASTM D-792	kg/m ³	940	lbs/ft ³	58.63
Yield Point	ASTM D-638	MPa	19.1	psi	2770
Elongation at Yield	ASTM D-638	%	15	%	15
Ten sile Break	ASTM D-638	MPa	33.2	psi	4815
Elongation at Break	ASTM D-638	%	200	%	200
Ten sile Modulus	ASTM D-638	MPa	818	psi	118643
Flexural Modulus	ASTM D-790	MPa	734	psi	106459
Izod Impact	ASTM D-4020	kJ/m ²	61	ft-lbs/in ²	29
Ten sile Impact	DIN 53448	kJ/m ²	1371	ft-lbs/in ²	653
Sand Wheel Wear	ASTM G-65,	T-1000=100	100	T-1000=100	100
Hardness	ASTM D-2240	Shore D	68	Shore D	68
Static Friction	ASTM D-1894	Unitless	0.16	Unitless	0.16
Dynamic Friction	ASTM D-1894	Unitless	0.08	Unitless	0.08
Coefficient of Thermal Exp.	ASTM D-696	^o C ⁻¹	0.00018	^o F ⁻¹	0.00011
Melt Point	ASTM D-3417	^o C	137-143	^o F	278-289
Compressive Modulus	ASTM D-695	MPa	551	psi	79917
Compressive Deformation	ASTM D-621	% at 454.5 kg	na	% at 1000 psi	na
Volume Resistivity	ASTM D-257	Ohm-cm	10 ⁵ -10 ⁹	Ohm-cm	10 ⁵ -10 ⁹
Surface Resistivity	ASTM D-257	Ohm/Sq	10 ⁵ -10 ⁹	Ohm	10 ⁵ -10 ⁹
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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