



UMHW Reprocessed

Physical Properties

Property	Method	SI Unit	SI Value	English Unit	English Value
Density	ASTM D-792	kg/m ³	940-945	lbs/ft ³	58-49-58.9
Yield Point	ASTM D-638	MPa	15.7-24.5	psi	2277-3553
Elongation at Yield	ASTM D-638	%	12-18	%	12-18
Tensile Break	ASTM D-638	MPa	18-26.8	psi	2610-3886
Elongation at Break	ASTM D-638	%	50-250	%	50-250
Tensile Modulus	ASTM D-638	MPa	700-1000	psi	101500-145000
Flexural Modulus	ASTM D-790	MPa	508-756	psi	73660-109620
Izod Impact	ASTM D-4020	kJ/m ²	40-72	ft-lbs/in ²	19-34
Tensile Impact	DIN 53448	kJ/m ²	536-1136	ft-lbs/in ²	255-540
Sand Wheel Wear	ASTM G-65,	T-1000=100	140-260	T-1000=100	140-260
Hardness	ASTM D-2240	Shore D	68	Shore D	68
Static Friction	ASTM D-1894	Unitless	0.15-0.20	Unitless	0.15-0.20
Dynamic Friction	ASTM D-1894	Unitless	0.1-0.14	Unitless	0.1-0.14
Coefficient of Thermal Exp.	ASTM D-696	⁰ C ⁻¹	□0.00018	⁰ F ⁻¹	□0.00011
Melt Point	ASTM D-3417	⁰ C	137-143	⁰ F	278-289
Compressive Modulus	ASTM D-695	MPa	na	psi	na
Compressive Deformation	ASTM D-621	% at 454.5 kg	'6-8	% at 1000 psi	6-8
Volume Resistivity	ASTM D-257	Ohm-cm	>10 ¹⁰ ->10 ¹⁵	Ohm-cm	>10 ¹⁰ ->10 ¹⁵
Surface Resistivity	ASTM D-257	Ohm	>10 ¹⁰ ->10 ¹⁵	Ohm	>10 ¹⁰ ->10 ¹⁵
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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