



# TECHNICAL INFORMATION

## QuickSilver

### Physical Properties

Property	Method	SI Unit	SI Value	English Unit	English Value
Density	ASTM D-792	kg/m <sup>3</sup>	937	lbs/ft <sup>3</sup>	58.4
Yield Point	ASTM D-638	MPa	18.7	psi	2711
Elongation at Yield	ASTM D-638	%	15.0	%	15.0
Tensile Break	ASTM D-638	MPa	37	psi	5365
Elongation at Break	ASTM D-638	%	201	%	201
Tensile Modulus	ASTM D-638	MPa	651	psi	94395
Flexural Modulus	ASTM D-790	MPa	711	psi	103095
Izod Impact	ASTM D-4020	kJ/m <sup>2</sup>	52	ft-lbs/in <sup>2</sup>	25
Tensile Impact	DIN 53448	kJ/m <sup>2</sup>	2200	ft-lbs/in <sup>2</sup>	1048
Sand Wheel Wear	ASTM G-65,	T-1000=100	106	T-1000=100	106
Hardness	ASTM D-2240	Type D	66	Type D	66
Static Friction	ASTM D-1894	Unitless	0.19	Unitless	0.19
Dynamic Friction	ASTM D-1894	Unitless	0.10	Unitless	0.10
Coefficient of Thermal Exp.	ASTM D-696	<sup>o</sup> C <sup>-1</sup>	0.00018	<sup>o</sup> F <sup>-1</sup>	0.00011
Volume Resistivity	ASTM D-257	Ohm-cm	>10 <sup>15</sup>	Ohm-cm	>10 <sup>15</sup>
Surface Resistivity	ASTM D-257	Ohm	>10 <sup>15</sup>	Ohm	>10 <sup>15</sup>
Water Absorption	ASTM D-570	%	nil	%	nil

\* Values are averages and are not specifications.

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

**IMPORTANT:** Most plastics will ignite and sustain flame under certain conditions. Caution is urged where any material may be exposed to open flame or heat-generating equipment. Use [Material Safety Data Sheets](#) to determine auto-ignition and flashpoint temperatures of materials, or consult Poly Hi Solidur, Fort Wayne, Indiana if additional information is needed.

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