

# Kyron<sup>®</sup> 1000

## PRODUCT TECHNICAL DATA SHEET

Mechanical	Test Method	Metric		English	
		Typical Value	Unit	Typical Value	Unit
Specific Gravity	D792	1.30	g/cm <sup>3</sup>	0.05	lbf/in <sup>3</sup>
Water Absorption (23°C/73°F in water 24 hrs)	D570	0.50	%	0.50	%
Tensile Strength	ASTM D638	4275	MPa	15,700	psi
Tensile Elongation at Break	ASTM D638	50	%	50	%
Flexural Strength	ASTM D790	172	MPa	25,000	psi
Flexural Modulus of Elasticity	ASTM D790	4137	GPa	600,000	ksi
Notched Izod Impact Strength	ASTM D256	80	J/m	1.50	ft-lb/in
Unnotched Izod Impact Strength	ASTM D4812	no break	J/m	no break	ft-lb/in
Thermal	Test Method	Typical Value	Unit	Typical Value	Unit
Melting Point	ASTM D3418	343	°C	649	°F
Glass Transition (T <sub>g</sub> )	ASTM D3418	143	°C	289	°F
Heat Deflection Temperature Under Load	ASTM D648	160	°C	320	°F
Coefficient of Linear Thermal Expansion	ASTM D696	4.68	10 <sup>-5</sup> /°C	2.60	10 <sup>-5</sup> /°F
Thermal Conductivity	ASTM C177	5.68	W/mK	1.73	Btu in/hr ft <sup>2</sup> °F

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<sup>1</sup>Estimated rating based on available data. The UL 94 Test is a laboratory test and does not relate to actual fire hazard.