

# Kyron® GC-100

## PRODUCT TECHNICAL DATA SHEET

### Product Description

Kyron® GC-100 is an injection-molded, high-temperature material offering outstanding stiffness and machinability without the presence of fiber. It is designed specifically for burn-in and test socket applications that require an extremely high degree of stability and superior micro-machinability.

Mechanical	Test Method	Metric		English	
		Typical Value	Unit	Typical Value	Unit
Specific Density	ASTM D792	1.52	g/cm <sup>3</sup>	1.52	g/cm <sup>3</sup>
Tensile Strength	ASTM D638	110	MPa	16,000	psi
Tensile Modulus of Elasticity	ASTM D638	8	GPa	1,100	ksi
Tensile Elongation	ASTM D638	3.00	%	3.00	%
Flexural Strength	ASTM D790	165	MPa	24,000	psi
Flexural Modulus of Elasticity	ASTM D790	8	GPa	1,100	ksi
Shear Strength	ASTM D732	76	MPa	11,000	psi
Compressive Strength	ASTM D695	159	MPa	23,000	psi
Compressive Modulus of Elasticity	ASTM D695	4	GPa	600	ksi
Notched Izod Impact	ASTM D256	37.4	J/m	0.7	ft-lb/in
Unnotched Izod Impact	ASTM D4812	480	J/m	9	ft-lb/in
Thermal	Test Method	Typical Value	Unit	Typical Value	Unit
Melting Point	ASTM D3418	343	°C	662	°F
Deflection Temperature at 1.8 MPa (264 psi)	ASTM D648	230	°C	445	°F
Electrical	Test Method	Typical Value	Unit	Typical Value	Unit
Surface Resistivity	ASTM D257	<10 <sup>13</sup>	ohm/sq	<10 <sup>13</sup>	ohm/sq
Flammability	UL 94 <sup>1</sup>	V-0		V-0	
Chemical	Test Method	Typical Value	Unit	Typical Value	Unit
Moisture, 24 hours	ASTM D570	0.09	% by wt	0.09	% by wt

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<sup>1</sup> Does not represent actual testing conducted by MCAM but is an estimated rating based on available data. The UL 94 Test is a laboratory test and does not relate to actual fire hazard.