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POLYIMIDE COMPOUNDS
PL1000 AND PL1001

TYPICAL PHYSICAL PROPERTIES

		COMPOUND PL1000		COMPOUND PL1001	
TYPICAL PHYSICAL PROPERTIES		**UNFILLED POLYIMIDE**		**GRAPHITE FILLED POLYIMIDE**	
GENERAL	**METHOD**	**US VALUE**	**SI UNITS**	**US VALUE**	**SI UNITS**
Specific Gravity	D792	1.35	1.35	1.4	1.4
Moisture Absorption	D570	0.70%	0.70%	0.70%	0.70%
MECHANICAL					
Tensile Strength, 73 °F	D638	10 ksi	69 MPa	9 ksi	69 MPa
Tensile Strength, 482 °F	D638	5.3 ksi	36 MPa	4.4 ksi	36 MPa
Flexural Stregth, 73 °F	D790	14 ksi	97 MPa	13 ksi	97 MPa
Flexural Stregth, 482 °F	D790	7.7 ksi	53 MPa	7.7 ksi	53 MPa
Flexural Modulus, 73 °F	D790	340 ksi	2.3 GPa	380 ksi	2.3 GPa
Flexural Modulus, 482 °F	D790	170 ksi	1.1 GPa	200 ksi	1.1 GPa
Notched Izod	D256	1.5 ft-lb/in.	0.8 J/cm	0.7 ft-lb/in.	0.8 J/cm
Hardness	D785	M55	M55	M53	M55
Coefficient of Friction, PV=23 Kpsi-fpm	D1894	0.29	0.29	0.25	0.25
ELECTRICAL					
Dielectrical Strength	D149	500 V/mil	200 kV/cm		
Dielectric Constant	D150	3.7 @ 1 KHz	3.7 @ 1 KHz		
Volume Resistivity	D257	10^{17} ohm-m	10^{17} ohm-m		
Surface Resistivity	D257	10^{16} ohm	10^{16} ohm		
THERMAL					
HDT, Method A	D648	700 °F	370 °C	700 °F	370 °C
UL94	D3801	V-0	V-0	V-0	V-0