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36-__F ULTEM 1000

This film offers high heat resistance coupled with high strength, stiffness, UV stability and broad chemical resistance. The combination of outstanding thermal, mechanical and electrical properties together with exceptional flame resistance and thermoform-ability, provide unprecedented performance for a wide variety of demanding new design concepts.

ELECTRICAL		resin as well as test results obtained from actual film testing. Result		
Properties	Test Method	Metric	English	
Surface Resistivity	ASTM D257	>10 ¹⁶ Ohms	>10 ¹⁶ Ohms	
Dielectric Strength at 0.003	ASTM D149	120 V/μm	3050 V/mil	
Dielectric Constant	ASTM D150	3.15 1 kHz	3.15 1 kHz	
Dissipation Factor	ASTM D150	0.0013 10 kHz	0.0013 10 kHz	
MECHANICAL		Result		
Properties	Test Method	Metric	English	
Tensile Strength at yield	ASTM D882	98 MPa	14.2 kpsi	
Elongation at break	ASTM D882	52 %	52 %	
Tensile Modulus	ASTM D882	3275 MPa	475 kpsi	
Flexural Modulus	ASTM D790	331 MPa	48 kpsi	
Tear Strength – prop.	ASTM D1004		381 g/mil	
OTHER		Result		
Properties	Test Method	Metric	English	
Specific Gravity	ASTM D792	1.27	1.27	
Water Absorption at 24 hours	ASTM D570	0.25 %	0.25 %	
Refractive Index	-	1.658	1.658	
Haze	ASTM D1003	%	%	
Area Factor	-		21888 in²/lb/mil	
THERMAL			Result	
Properties	Test Method	Metric	English	
Continuous Use TempUL	-	170 °C	338 ºF	
Heat Deflection Temp. at 264	ASTM D648	201 ºC	394 ºF	
psi				
Melt Temp – DSC	-	ōC	₽F	
Glass Transition Temp.	ASTM D3418	216 ºC	420 ºF	
UL Rating – UL94	-	VTM-0	VTM-0	
L.O.I.	ASTM D2862	27 %	27%	
NBS Smoke	ASTM E662	6 DMax	6 DMax	

*The above values are "Typical Values" which have a nominal range about them and are not intended for specification purposes.