

- ULTEM 3452 1000 -

PROPERTIES	UNIT	TEST METHOD	VALUES
Physical			
Glass reinforced 45%			
Density	g/cm ³	ISO 1183	1.66
Coefficient of thermal expansion in flow direction CTE (23°C-60°C)	1/°C	ASTM D696	-
Water absorption at saturation at 23°C	%	ISO 62	-
Mechanical			
Tensile stress - at break at 50 mm/min	MPa	ISO 527	100
Tensile strain - at break at 50 mm/min	%	ISO 527	1.5
Tensile modulus at 1mm/min	MPa	ISO 527	12500
Flexural stress at break at 2 mm/min	MPa	ISO 178	150
Flexural modulus at 2 mm/min	MPa	ISO 178	12000
Hardness H 358/30	MPa	ISO 2039-1	-
Hardness Rockwell R, M or L	-	ISO 2039-2	-
Abrasion resistance Taber, CS-17, 1 kg	mg/1000cy	GE	-
Impact Izod unnotched at +23°C (- 30°C)	kJ/m ²	ISO 180-1C	14 (13)
Thermal			
Vicat A/50 10N (method A) à 50°C/h	°C	ISO 306	205
Vicat B/50 50N (method B) à 50°C/h	°C	ISO 306	205
HDT / Ae at 1,80 MPa	°C	ISO 75	200
HDT / Be at 0,45 MPa	°C	ISO 75	207
Relative Temperature Index RTI – electrical properties	°C	UL746B	-
Relative Temperature Index RTI – mechanical properties with impact	°C	UL746B	-
UL 94 rating flame class rating / at mm thickness	Class / mm	UL94	V0/0.77–5VA/3.0
Limited Oxygen Index- LOI	%	ASTM D2863	-
Electrical			
Dielectric strength at 3,2 mm	kV/mm	ASTM D149	16
Surface resistivity	Ohm	ASTM D257	>1 ^E +15
Volume resistivity	Ohm,cm	ASTM D257	>1 ^E +13
Dielectric constant at 50 Hz	-	ASTM D150	-
Dielectric constant at 1 MHz	-	ASTM D150	3.6
Dissipation factor at 50 Hz	-	ASTM D150	0.01
Dissipation factor at 1 MHz	-	ASTM D150	0.015
Comparative Tracking Index - CTI	PLC	UL746A	-
Arc Resistance - D-495 - class	PLC	UL746A	-
High Voltage Arc - Tracking Rate – HVTR - class	PLC	UL746A	-

The values indicated are it with titles codes and do not engage to in no case the responsibility for company PHT



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