

- LEXAN 500R 739 -

PROPERTIES	UNIT	TEST METHOD	VALUES
<u>Physical</u>			
Glass reinforced 10%			
Density	g/cm ³	ISO 1183	1.25
Coefficient of thermal expansion in flow direction CTE (23°C-60°C)	1/°C	ASTM D696	4-10 ⁻⁵
Water absorption at saturation at 23°C	%	ISO 62	0.31
<u>Mechanical</u>			
Tensile stress - at break at 5 mm/min	MPa	ISO 527	45
Tensile strain - at break at 5 mm/min	%	ISO 527	7
Tensile modulus at 1mm/min	MPa	ISO 527	3300
Flexural stress at break at 2 mm/min	MPa	ISO 178	95
Flexural modulus at 2 mm/min	MPa	ISO 178	3400
Hardness H 358/30	MPa	ISO 2039-1	115
Abrasion resistance Taber, CS-17, 1 kg	mg/1000cy	GE	11
Impact Izod unnotched at +23°C (- 30°C)	kJ/m ²	ISO 180-1A	8 (8)
<u>Thermal</u>			
Vicat A/50 10N (method A) at 50°C/h	°C	ISO 306	-
Vicat B/50 50N (method B) at 50°C/h	°C	ISO 306	141
HDT / Ae at 1,80 MPa	°C	ISO 75/Ae	132
HDT / Be at 0,45 MPa	°C	ISO 75/Be	140
Relative Temperature Index RTI – electrical properties	°C	UL746B	130
Relative Temperature Index RTI – mechanical properties with impact	°C	UL746B	125
UL 94 rating flame class rating / at mm thickness	Class / mm	UL94	V0/1.47;5VA/3.05
Limited Oxygen Index- LOI	%	ASTM D2863	35
<u>Electrical</u>			
Dielectric strength at 3,2 mm	kV/mm	ASTM D149	16
Surface resistivity	Ohm	ASTM D257	>10 ¹⁵
Volume resistivity	Ohm,cm	ASTM D257	>10 ¹⁵
Dielectric constant at 50 Hz	-	ASTM D150	3.0
Dielectric constant at 1 MHz	-	ASTM D150	2.9
Dissipation factor at 50 Hz	-	ASTM D150	0.001
Dissipation factor at 1 MHz	-	ASTM D150	0.01

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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