

- LEXAN 3412R 701 -

PROPERTIES	UNIT	TEST METHOD	VALUES
Physical			
Glass reinforced 20%			
Density	g/cm ³	ISO 1183	1.35
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	0.29
Mechanical			
Tensile stress - at break at 5 mm/min	MPa	ISO 527	90
Tensile strain - at break at 5 mm/min	%	ISO 527	2
Tensile modulus at 1mm/min	MPa	ISO 527	6000
Flexural stress at break at 2 mm/min	MPa	ISO 178	120
Flexural modulus at 2 mm/min	MPa	ISO 178	5500
Hardness H 358/30	MPa	ISO 2039-1	125
Abrasion resistance Taber, CS-17, 1 kg	mg/1000cy	GE	-
Impact Izod unnotched at +23°C (- 30°C)	kJ/m ²	ISO 180-1A	7 (6)
Thermal			
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	145
HDT / Ae at 1,80 MPa	°C	ISO 75/Ae	139
HDT / Be at 0,45 MPa	°C	ISO 75/Be	144
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	V1/1.47;V0/2.99
Limited Oxygen Index- LOI	%	ASTM D2863	-
Electrical			
Dielectric strength at 3,2 mm	kV/mm	ASTM D149	19.2
Surface resistivity	Ohm	ASTM D257	>10 ¹⁵
Volume resistivity	Ohm.cm	ASTM D257	>1 ^E +17
Dielectric constant at 50 Hz	-	ASTM D150	3.17
Dielectric constant at 1 MHz	-	ASTM D150	3.13
Dissipation factor at 50 Hz	-	ASTM D150	0.0009
Dissipation factor at 1 MHz	-	ASTM D150	0.0073

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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