

- NORYL GFN3 801-

PROPERTIES	UNIT	TEST METHOD	VALUES
<u>Physical</u>			
Glass reinforced 30%			
Density	g/cm ³	ISO 1183	1.30
Coefficient of thermal expansion in flow direction CTE (23°C-60°C)	1/°C	ASTM D696	3-10 ⁻⁵
Water absorption at saturation at 23°C	%	ISO 62	0.20
<u>Mechanical</u>			
Tensile stress - at break at 5 mm/min	MPa	ISO 527	100
Tensile strain - at break at 5 mm/min	%	ISO 527	1.5
Tensile modulus at 1mm/min	MPa	ISO 527	8000
Flexural stress at break at 2 mm/min	MPa	ISO 178	125
Flexural modulus at 2 mm/min	MPa	ISO 178	6000
Hardness H 358/30	MPa	ISO 2039-1	130
Hardness Rockwell R, M or L	-	ISO 2039-2	M85
Abrasion resistance Taber, CS-17, 1 kg	mg/1000cy	GE	70
Impact Izod unnotched at +23°C (- 30°C)	kJ/m ²	ISO 180-1A	25 (25)
<u>Thermal</u>			
Vicat A/50 10N (method A) at 50°C/h	°C	ISO 306	155
Vicat B/50 50N (method B) at 50°C/h	°C	ISO 306	145
HDT / Ae at 1,80 MPa	°C	ISO 75/Ae	140
HDT / Be at 0,45 MPa	°C	ISO 75/Be	145
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	HB/1.47
Limited Oxygen Index- LOI	%	ASTM D2863	26
<u>Electrical</u>			
Dielectric strength at 3,2 mm	kV/mm	ASTM D149	18
Surface resistivity	Ohm	ASTM D257	>10 ¹⁵
Volume resistivity	Ohm,cm	ASTM D257	10 ¹⁵
Dielectric constant at 50 Hz	-	ASTM D150	2.9
Dielectric constant at 1 MHz	-	ASTM D150	2.9
Dissipation factor at 50 Hz	-	ASTM D150	0.0006
Dissipation factor at 1 MHz	-	ASTM D150	0.001
Comparative Tracking Index - CTI	PCL	UL746A	-
Arc Resistance - D-495 - class	PCL	UL746A	-
High Voltage Arc - Tracking Rate – HVTR - class	PCL	UL746A	-

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



PLASTIQUES HAUTES TECHNOLOGIES

ZA de Malvaisin - 58 rue du Vercors – 38240 LE VERSOUD
Tél (33) 04 76 776 990 - Fax (33) 04 76 776 994