- NORYL SE1 GFN3 801 -

PROPERTIES	UNIT	TEST METHOD	VALUES
Physical			
Glass reinforced 30%			
Density	g/cm^3	ISO 1183	1.29
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	0.23
Mechanical			
Tensile stress - at break at 5 mm/min	MPa	ISO 527	105
Tensile strain - at break at 5 mm/min	%	ISO 527	2
Tensile modulus at 1mm/min	MPa	ISO 527	8000
Flexural stress at break at 2 mm/min	MPa	ISO 178	130
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	M95
Abrasion resistance Taber, CS-17, 1 kg	mg/1000cy	GE	55
Impact Izod unnotched at +23°C (- 30°C)	kJ/m²	ISO 180-1A	25 (25)
Thermal			
Vicat A/50 10N (method A) at 50°C/h	°C	ISO 306	155
Vicat B/50 50N (method B) at50°C/h	°C	ISO 306	145
HDT / Ae at 1,80 MPa	°C	ISO 75/Ae	135
HDT / Be at 0,45 MPa	°C	ISO 75/Be	140
Relative Temperature Index RTI – electrical properties	°C	UL746B	110
Relative Temperature Index RTI – mechanical properties with impact	°C	UL746B	105
UL 94 rating flame class rating / at mm thickness	Class / mm	UL94	V1/1.47/5VA/3.00
Limited Oxygen Index- LOI	%	ASTM D2863	32
Electrical			
Dielectric strength at 3,2 mm	kV/mm	ASTM D149	30 / 25 / 16
Surface resistivity	Ohm	ASTM D257	>10^{15}
Volume resistivity	Ohm,cm	ASTM D257	10^{15}
Dielectric constant at 50 Hz	-	ASTM D150	3.1
Dielectric constant at 1 MHz	-	ASTM D150	3.0
Dissipation factor at 50 Hz	-	ASTM D150	0.008
Dissipation factor at 1 MHz	-	ASTM D150	0.005
Comparative Tracking Index - CTI	PCL	UL746A	3
Arc Resistance - D-495 - class	PCL	UL746A	-
High Voltage Arc - Tracking Rate – HVTR - class	PCL	UL746A	4

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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