



## Noryl® GFN3 – Material Data Sheet

Glass fiber reinforcement, 30 % by Weight

Properties			
Physical	Nominal Values	(English)	Test Method
Density -Specific Gravity	1.28	sp gr 23/23°C	ASTM D792
Mold Shrink, Linear-Flow (0.125 in)	0.0010 to 0.0040	in/in	ASTM D955
Water Absorption @ 24 hrs (73 °F)	0.060	%	ASTM D570
Mechanical	Nominal Values	(English)	Test Method
Tensile Strength @ Break -	15000	psi	ASTM D638
Tensile Elongation @ Brk	5.0	%	ASTM D638
Flexural Modulus (4.00 in Span ) -	1040000	psi	ASTM D790
Flexural Strength @ Yield (4.00 in Span ) -	23500	psi	ASTM D790
Impact	Nominal Values	(English)	Test Method
Notched Izod Impact			ASTM D256
(-40 °F)	1.80	ft-lb/in	
(73 °F)	2.20	ft-lb/in	
Hardness	Nominal Values	(English)	Test Method
Rockwell Hardness (L-Scale)	108		ASTM D785
Thermal	Nominal Values	(English)	Test Method
DTUL @264psi - Unannealed (0.250 in)	280	°F	ASTM D648
DTUL @66psi - Unannealed (0.250 in)	317	°F	ASTM D648
CLTE, Flow (-40 to 200°F (-40 to 93°C))	1.4E-005	in/in/°F	ASTM D696
Electrical	Nominal Values	(English)	Test Method
Dielectric Strength (In Oil, 0.125 in)	550	V/mil	ASTM D149
Dielectric Constant (60 Hz)	2.930		ASTM D150
Dissipation Factor (60 Hz)	0.00090		ASTM D150
Arc Resistance (PLC) (Tungsten Electrode, 0.125 in)	PLC 7		ASTM D495
Ignition Characteristics	Nominal Values	(English)	Test Method
UL File Number (USA)	E121562		
Flame Rating - UL (0.0580 in)	HB		UL 94
Limiting Oxygen Index	26	%	ASTM D2863
UL 746	Nominal Values	(English)	Test Method
Relative Temp Index Mech w/olmp	194	°F	UL 746
Relative Temp Index Mech w/lmp	194	°F	UL 746
Relative Temp Indx Elect	194	°F	UL 746
Comparative Tracking Index (CTI) (PLC) (0.125 in)	PLC 4		UL 746
High Voltage Arc Tracking Rate (HVTR) (PLC) (0.125 in)	PLC 3		UL 746
Hot-wire Ignition (HWI) (PLC) (0.125 in)	PLC 4		UL 746
High Amp Arc Ignition (HAI) (PLC)(0.125 in)	PLC 4		UL 746

### Additional Properties

CSA (See File for complete listing), CSA LISTED: LS88480 File No.

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