



ADVANCED POLYMER TECHNOLOGIES

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Noryl® GFN3 Resin

PROPERTY	NOMINAL VALUES	TEST METHOD
Physical		
Specific Gravity	1.29	ASTM D792
Water Absorption @ 24 hrs	0.06 %	ASTM D570
Mechanical		
Tensile Stress, break (Type I, 5 mm/min)	116 MPa	ASTM D638
Tensile Strain, break (Type I, 5 mm/min)	2 %	ASTM D638
Tensile Modulus (5 mm/min)	9150 MPa	ASTM D638
Flexural Stress, yield (1.3 mm/min, 50 mm span)	180 MPa	ASTM D790
Flexural Stress, yield (2.6 mm/min, 100 mm span)	162 MPa	ASTM D790
Flexural Modulus (1.3 mm/min, 50 mm span)	8000 MPa	ASTM D790
Flexural Modulus (2.6 mm/min, 100 mm span)	7170 MPa	ASTM D790
Hardness, Rockwell L	108	ASTM D785
Thermal		
HDT, 0.45 MPa, 3.2 mm (Unannealed)	142°C	ASTM D648
HDT, 1.82 MPa, 3.2 mm (Unannealed)	137°C	ASTM D648
HDT, 0.45 MPa, 6.4 mm (Unannealed)	158°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm (Unannealed)	137°C	ASTM D648
Relative Temp Index, Elec	90°C	UL 746B
Relative Temp Index, Mech w/impact	90°C	UL 746B
Relative Temp Index, Mech w/o impact	90°C	UL 746B
Electrical		
Dielectric Strength, in oil, 3.2 mm	21.6 kV/mm	ASTM D149
Relative Permittivity, 50/60 Hz	2.93	ASTM D150
Dissipation Factor, 50/60 Hz	0.0009	ASTM D150
Impact		
Izod Impact, unnotched (23°C)	588 J/m	ASTM D4812
Izod Impact, notched (23°C)	117 J/m	ASTM D256
Izod Impact, notched (-30°C)	124 J/m	ASTM D256
Flame Characteristics		
UL Recognized, 94HB Flame Class Rating	1.47 mm	UL 94
Oxygen Index (LOI)	26 %	ASTM D2863

*Noryl is a registered trademark of the General Electric Company

**Flame characteristics are not intended to reflect hazards under actual fire conditions.

***Typical values only. Actual properties of individual batches will vary within specification limits.