

# NORYL GTX™ RESIN GTX951W

**REGION ASIA** 

## **DESCRIPTION**

NORYL GTX951W resin is a non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade exhibits high heat resistance, excellent chemical resistance, high melt flow, and added mold release. NORYL GTX951W resin was designed for automotive under-the-hood applications such as power distribution boxes, relay boxes, and junction boxes.

#### GENERAL INFORMATION

Features	Chemical Resistance, Hydrolytic Stability, Low Warpage, Low Shrinkage, Low Moisture Absorption, Low Specific Gravity, Dimensional stability, High stiffness/Strength, High temperature resistance, Impact resistant, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polyphenylene Ether + PA (PPE+Nylon)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Under the Hood
Electrical and Electronics	Electronic Components, Lighting
Industrial	Electrical

# TYPICAL PROPERTY VALUES

PROPERTIES TYPICAL VALUES UNITS **TEST METHODS** MECHANICAL<sup>(1)</sup> ASTM D638 Tensile Stress, yld, Type I, 50 mm/min 65 MPa Tensile Strain, brk, Type I, 50 mm/min 55 % ASTM D638 100 ASTM D790 Flexural Stress, yld, 2.6 mm/min, 100 mm span MPa Flexural Modulus, 2.6 mm/min, 100 mm span 2450 MPa ASTM D790 IMPACT (1) Izod Impact, notched, 23°C 211 J/m ASTM D256 Izod Impact, notched, -30°C 100 ASTM D256 J/m THERMAL (1) HDT, 0.45 MPa, 6.4 mm, unannealed °C 195 ASTM D648 CTE, -40°C to 40°C, flow ASTM E831 9.E-05 1/°C CTE, -40°C to 40°C, xflow 8.5E-05 1/°C ASTM E831 PHYSICAL (1) Specific Gravity 1.1 ASTM D792 Melt Flow Rate, 280°C/2.16 kgf 24 g/10 min ASTM D1238 Melt Flow Rate, 280°C/5.0 kgf 65 g/10 min ASTM D1238 ELECTRICAL (1) Dielectric Strength, in oil, 1.6 mm 22.4 kV/mm ASTM D149 0.017 ASTM D150 Dissipation Factor, 1 MHz FLAME CHARACTERISTICS (2)

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# CHEMISTRY THAT MATTERS

Revision 20241016



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
UL Yellow Card Link	E207780-102315341	-	
UL Recognized, 94HB Flame Class Rating	1.2	mm	UL 94
INJECTION MOLDING (3)			
Drying Temperature	100 – 120	°C	
Drying Time	2 – 3	Hrs	
Maximum Moisture Content	0.07	%	
Melt Temperature	280 - 310	°C	
Nozzle Temperature	270 – 300	°C	
Front - Zone 3 Temperature	280 – 300	°C	
Middle - Zone 2 Temperature	270 – 290	°C	
Rear - Zone 1 Temperature	260 – 280	°C	
Hopper Temperature	60 - 80	°C	
Mold Temperature	80 – 120	°C	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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