

**Product Texts**

NORYL GTX951A 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.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>65</b>	g/10min	ASTM D 1238
Temperature	<b>280</b>	°C	-
Load	<b>5</b>	kg	-
Mold Shrinkage, MD	<b>1.55</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>1.35</b>	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Yield stress	<b>66</b>	MPa	ISO 527
Strain at break	<b>50</b>	%	ISO 527
Flexural modulus	<b>2370</b>	MPa	ISO 178
<b>ASTM Data</b>			
Tensile Modulus	<b>2250</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>65</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>57</b>	MPa	ASTM D 638
Elongation at Yield	<b>5</b>	%	ASTM D 638
Elongation at Break	<b>55</b>	%	ASTM D 638
Izod Impact notched, 1/8 in	<b>211</b>	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	<b>100</b>	J/m	ASTM D 256
Temperature	<b>-30</b>	°C	-

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>22.4</b>	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	<b>0.017</b>	-	ASTM D 150

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1100</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>95 - 105</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Processing humidity	<b>≤0.07</b>	%	-
Melt temperature	<b>270 - 295</b>	°C	-
Mold temperature	<b>65 - 95</b>	°C	-
Zone 1	<b>255 - 295</b>	°C	-
Zone 2	<b>260 - 295</b>	°C	-
Zone 3	<b>265 - 295</b>	°C	-
Screw speed	<b>20 - 100</b>	rpm	-
Back pressure	<b>0.3 - 1.4</b>	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Applications**

Automotive