

**NORYL GTX™ Resin GTX810 - Asia**

(PPE+PA\*)-GF10

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

NORYL GTX™ 810 resin is a 10% glass reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade has high stiffness (flexural modulus 3000 MPa), excellent chemical resistance, and high heat resistance. NORYL GTX GTX810 resin is an excellent candidate for a wide variety of applications including electrical and lighting components, security (CCTV) housings.

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>89</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>88</b>	MPa	ASTM D 638
Elongation at Break	<b>10</b>	%	ASTM D 638
Rockwell Hardness	<b>R 119</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>80</b>	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	<b>53</b>	J/m	ASTM D 256
Temperature	<b>-30</b>	°C	-

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Vicat Temperature	<b>240</b>	°C	ASTM D 1525

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water Absorption, 24hr	<b>0.5</b>	%	ASTM D 570
Density	<b>1160</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>280 - 305</b>	°C	-
Mold temperature	<b>75 - 120</b>	°C	-
Zone 1	<b>265 - 305</b>	°C	-
Zone 2	<b>270 - 305</b>	°C	-
Zone 3	<b>275 - 305</b>	°C	-
Screw speed	<b>20 - 100</b>	rpm	-
Back pressure	<b>0.3 - 1.4</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Asia Pacific

**Applications**

Automotive