

**Product Texts**

NORYL GTX™ GTX8408 resin is an 8% glass reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade exhibits high elongation, excellent chemical resistance, high heat resistance, and flow. NORYL GTX8408 resin is an excellent candidate for a wide variety of structural and electrical connector applications.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	22	cm <sup>3</sup> /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	26.3	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	4000	MPa	ISO 527
Yield stress	87	MPa	ISO 527
Yield strain	4.5	%	ISO 527
Stress at break	82	MPa	ISO 527
Strain at break	10	%	ISO 527
Flexural modulus	3520	MPa	ISO 178
Charpy notched impact strength, +23°C	8	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	7	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	3	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	3560	MPa	ASTM D 638
Tensile Strength at Yield	84	MPa	ASTM D 638
Tensile Strength at Break	80	MPa	ASTM D 638
Elongation at Yield	4.3	%	ASTM D 638
Elongation at Break	10.2	%	ASTM D 638
Flexural Modulus	3320	MPa	ASTM D 790
Izod Impact notched, 1/8 in	82	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	45	J/m	ASTM D 256
Temperature	-30	°C	-

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 0.45 MPa	240	°C	ISO 75-1/-2
Vicat softening temperature, B	224	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	224	°C	ISO 306
<b>ASTM Data</b>			
DTUL @ 66 psi	239	°C	ASTM D 648
Vicat Temperature	224	°C	ASTM D 1525

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	0.35	%	Sim. to ISO 62
Humidity absorption	0.35	%	Sim. to ISO 62
Density	1150	kg/m <sup>3</sup>	ISO 1183
Density	1150	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	95 - 105	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.07	%	-
Melt temperature	280 - 305	°C	-
Mold temperature	75 - 120	°C	-
Zone 1	265 - 305	°C	-

**NORYL GTX™ Resin GTX8408 - Americas**

(PPE+PA\*)-GF8

Saudi Basic Industries Corporation (SABIC)

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**

North America