

**Product Texts**

NORYL GTX™ 985 resin is a conductive, 18% mineral reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade combines high stiffness, excellent chemical resistance, and high heat resistance. NORYL GTX985 is conductive for primerless electrostatic painting and is an excellent candidate for automotive exterior trim applications.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	15	cm <sup>3</sup> /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	16	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	4400	MPa	ISO 527
Yield stress	65	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	60	MPa	ISO 527
Strain at break	7	%	ISO 527
Flexural modulus	4350	MPa	ISO 178
Charpy notched impact strength, +23°C	4	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	60	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	4	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Strength at Yield	65	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	7	%	ASTM D 638
Flexural Modulus	4200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	45	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	40	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 0.45 MPa	205	°C	ISO 75-1/-2
Vicat softening temperature, B	195	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	200	°C	ISO 306
Coeff. of linear therm. expansion, parallel	60	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	65	E-6/K	ISO 11359-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	200	°C	ASTM D 648
Vicat Temperature	195	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Humidity absorption	1.1	%	Sim. to ISO 62
Density	1250	kg/m <sup>3</sup>	ISO 1183
Density	1250	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 110	°C	-
Pre-drying - Time	2 - 3	h	-
Processing humidity	≤0.02	%	-
Melt temperature	280 - 300	°C	-
Mold temperature	100 - 120	°C	-

**NORYL GTX™ Resin GTX985 - Americas**

(PPE+PA\*)-MF18

Saudi Basic Industries Corporation (SABIC)

Feed temperature	<b>80 - 100</b>	°C	-
Zone 1	<b>260 - 280</b>	°C	-
Zone 2	<b>270 - 290</b>	°C	-
Zone 3	<b>280 - 300</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America

**Applications**

Automotive