

Product Texts

NORYL GTX™ 974 resin is a conductive, non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade is optimized to allow for in- or on-line primer-less electrostatic painting. NORYL GTX974 resin exhibits high impact resistance and is an excellent candidate for automotive painted applications such as body panels and fenders.

UL Yellow Card Link [F45329-236744](https://www.ul.com/yellowcard/F45329-236744)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	12	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-

ASTM Data			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2000	MPa	ISO 527
Yield stress	50	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	45	MPa	ISO 527
Strain at break	30	%	ISO 527
Flexural modulus	1900	MPa	ISO 178
Charpy notched impact strength, +23°C	18	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	10	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	17	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2050	MPa	ASTM D 638
Tensile Strength at Yield	55	MPa	ASTM D 638
Tensile Strength at Break	50	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	50	%	ASTM D 638
Flexural Modulus	2050	MPa	ASTM D 790
Izod Impact notched, 1/8 in	180	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	120	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, A	230	°C	ISO 306
Vicat softening temperature, B	175	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	180	°C	ISO 306
Coeff. of linear therm. expansion, parallel	100	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	90	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	180	°C	ASTM D 648
Vicat Temperature	180	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	4.2	%	Sim. to ISO 62
Humidity absorption	1.2	%	Sim. to ISO 62
Density	1080	kg/m ³	ISO 1183
Density	1080	kg/m ³	ASTM D 792

NORYL GTX™ Resin GTX974 - Europe

(PPE+PA*)

Saudi Basic Industries Corporation (SABIC)

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 120	°C	-
Pre-drying - Time	2 - 3	h	-
Processing humidity	≤0.07	%	-
Melt temperature	290 - 320	°C	-
Mold temperature	100 - 120	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	260 - 280	°C	-
Zone 2	280 - 300	°C	-
Zone 3	290 - 320	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

Europe

Applications

Automotive