

**Product Texts**

NORYL GTX™ 674PC 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 powder coat painting around corners and holes with a Class A Surface. NORYL GTX674PC resin exhibits high heat resistance, improved surface appearance and is an excellent candidate for automotive applications such as mirror housings and brackets. This material is only available in black.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Density of melt	967	kg/m <sup>3</sup>	-
Thermal conductivity of melt	0.19	W/(m K)	-
Spec. heat capacity of melt	3760	J/(kg K)	-
Ejection temperature	156	°C	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	25	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2320	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	60	MPa	ISO 527
Strain at break	4	%	ISO 527
Flexural modulus	2480	MPa	ISO 178
<b>ASTM Data</b>			
Tensile Modulus	2810	MPa	ASTM D 638
Tensile Strength at Yield	65	MPa	ASTM D 638
Tensile Strength at Break	64	MPa	ASTM D 638
Elongation at Yield	3	%	ASTM D 638
Elongation at Break	4	%	ASTM D 638
Flexural Modulus	2890	MPa	ASTM D 790
Izod Impact notched, 1/8 in	74	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	50	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	185	°C	ISO 75-1/-2
Vicat softening temperature, B	197	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	196	°C	ISO 306
Coeff. of linear therm. expansion, parallel	122	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	134	E-6/K	ISO 11359-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	188	°C	ASTM D 648
Vicat Temperature	197	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1110	kg/m <sup>3</sup>	ISO 1183
Density	1110	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
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	-
Zone 2	270 - 305	°C	-
Zone 3	275 - 305	°C	-

**NORYL GTX™ Resin GTX674PC - Europe**  
(PPE+PA\*)

Saudi Basic Industries Corporation (SABIC)

Screw speed	<b>20 - 100</b>	rpm	-
Back pressure	<b>0.3 - 1.4</b>	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

Europe