

NORYL GTX™ Resin GTX830 - Europe

(PPE+PA*)-GF30

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL GTX™ 830 resin is a 30% glass reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade has high stiffness (flexural modulus 8200 MPa), excellent chemical resistance, and high heat resistance. NORYL GTX GTX830 resin is an excellent candidate for a wide variety of applications including automotive under the bonnet applications and water meter housings.

UL Yellow Card Link [E45329-236571](https://www.ulprospector.com/usa/Products/Plastics/PA12-6F30)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	7	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	7300	MPa	ISO 527
Stress at break	110	MPa	ISO 527
Strain at break	2.5	%	ISO 527
Flexural modulus	6200	MPa	ISO 178
Charpy impact strength, +23°C	60	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	40	kJ/m ²	ISO 179/1eU
Izod impact strength, +23°C, 4mm	45	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	45	kJ/m ²	ISO 180/1U
Ball indentation hardness	110	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	220	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	220	°C	ISO 306
Coeff. of linear therm. expansion, parallel	20	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80	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	-
Thermal Conductivity	0.26	W/(m K)	DIN 52616

Other properties	Value	Unit	Test Standard
Water absorption	3.1	%	Sim. to ISO 62
Humidity absorption	1.09	%	Sim. to ISO 62
Density	1320	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 110	°C	-
Pre-drying - Time	2 - 3	h	-
Processing humidity	≤0.07	%	-
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 100	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 290	°C	-
Zone 3	280 - 300	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

Europe

Applications

Automotive