NORYL GTX™ Resin GTX830 - Asia

(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 E207780-104248654

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	**151**	MPa	ASTM D 638
Tensile Strength at Break	**158**	MPa	ASTM D 638
Elongation at Break	**7**	%	ASTM D 638
Rockwell Hardness	**R 120**	-	ASTM D 785
Izod Impact notched, 1/8 in	**106**	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	**80**	J/m	ASTM D 256
Temperature	**-30**	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
ASTM Data			
Vicat Temperature	**248**	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	**0.5**	%	ASTM D 570
Density	**1330**	kg/m³	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	-
Screw speed	**20 - 100**	rpm	-
Back pressure	**0.3 - 1.4**	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

Asia Pacific

Applications

Automotive

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