NORYL GTX™ Resin GTX918W - Americas

(PPE+PA*) Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL GTX™ 918W resin is a non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade exhibits high heat resistance, excellent chemical resistance, and high melt flow. NORYL GTX918W resin may be an excellent candidate for automotive under-the-hood and electrical applications requiring the retention of properties while under thermal load.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Density of melt	**924**	kg/m³	-
Thermal conductivity of melt	**0.21**	W/(m K)	-
Spec. heat capacity of melt	**1920**	J/(kg K)	-
Ejection temperature	**200**	°C	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	**62**	MPa	ASTM D 638
Elongation at Break	**53**	%	ASTM D 638
Flexural Modulus	**2360**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**202**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Coeff. of linear therm. expansion, parallel	**80**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**80**	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 66 psi	**188**	°C	ASTM D 648
DTUL @ 264 psi	**148**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	**1090**	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	**270 - 295**	°C	-
Mold temperature	**65 - 95**	°C	-
Zone 1	**255 - 295**	°C	-
Zone 2	**260 - 295**	°C	-
Zone 3	**265 - 295**	°C	-
Screw speed	**20 - 100**	rpm	-
Back pressure	**0.3 - 1.4**	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America

Applications

Automotive