

NORYL GTX™ Resin GTX918W - Asia

(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/m ³	-
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/m ³	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

Asia Pacific

Applications

Automotive