

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.

UL Yellow Card Link [E45329-236572](#)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	5	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	1.2	kg	-
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
ISO Data			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	4.5	%	ISO 527
Stress at break	55	MPa	ISO 527
Strain at break	30	%	ISO 527
Flexural modulus	2200	MPa	ISO 178
Charpy notched impact strength, +23°C	20	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	10	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	20	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m ²	ISO 180/1A
Ball indentation hardness	95	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, A	245	°C	ISO 306
Vicat softening temperature, B	190	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	195	°C	ISO 306
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
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Thermal Conductivity	0.25	W/(m K)	DIN 52616

Other properties	Value	Unit	Test Standard
Water absorption	4.2	%	Sim. to ISO 62
Humidity absorption	1.34	%	Sim. to ISO 62
Density	1100	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 120	°C	-
Pre-drying - Time	2 - 3	h	-
Processing humidity	≤0.07	%	-
Melt temperature	280 - 310	°C	-
Mold temperature	80 - 120	°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