NORYL GTX™ Resin GTX9400W - Americas

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

Product Texts

NORYL GTX™ 9400W resin is a non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA) that exhibits high heat resistance, high flow, and added mold release. NORYL GTX9400W resin is injection moldable and an excellent candidate for automotive under-the-hood applications such as power distribution boxes, relay boxes, connectors, sensors, and fuse box covers.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**97**	g/10min	ASTM D 1238
Temperature	**280**	°C	-
Load	**5**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	**69**	MPa	ISO 527
Strain at break	**39**	%	ISO 527
Flexural modulus	**2700**	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	**21**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**1950**	MPa	ASTM D 638
Tensile Strength at Yield	**64**	MPa	ASTM D 638
Tensile Strength at Break	**62**	MPa	ASTM D 638
Elongation at Yield	**11**	%	ASTM D 638
Elongation at Break	**40**	%	ASTM D 638
Izod Impact notched, 1/8 in	**256**	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	**112**	J/m	ASTM D 256
Temperature	**-30**	°C	-
Izod Impact unnotched, 1/8 in	**849**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**78**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**187**	°C	ISO 75-1/-2
Vicat softening temperature, B	**203**	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	**190**	°C	ASTM D 648
DTUL @ 264 psi	**83**	°C	ASTM D 648
Vicat Temperature	**212**	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	**1100**	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	Regional Availability
Injection Molding	North America

Applications
Automotive