NORYL GTX™ Resin GTX951W - Asia

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

Product Texts

NORYL GTX™ 951W resin is a non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade exhibits high heat resistance, excellent chemical resistance, high melt flow, and added mold release. NORYL GTX951W resin was designed for automotive under-the-hood applications such as power distribution boxes, relay boxes, and junction boxes.

UL Yellow Card Link E207780-102315341

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Density of melt	**955**	kg/m³	-
Thermal conductivity of melt	**0.2**	W/(m K)	-
Spec. heat capacity of melt	**1500**	J/(kg K)	-
Ejection temperature	**216**	°C	-
ASTM Data			
Melt Flow Index, MFI	**65**	g/10min	ASTM D 1238
Temperature	**280**	°C	-
Load	**5**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2500**	MPa	ISO 527
ASTM Data			
Tensile Strength at Yield	**65**	MPa	ASTM D 638
Elongation at Break	**55**	%	ASTM D 638
Izod Impact notched, 1/8 in	**211**	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	**100**	J/m	ASTM D 256
Temperature	**-30**	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Coeff. of linear therm. expansion, parallel	**100**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**100**	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**1.2**	mm	-

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	**22.4**	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	**0.017**	-	ASTM D 150

Other properties	Value	Unit	Test Standard
Density	**1110**	kg/m³	ISO 1183
Density	**1100**	kg/m³	ASTM D 792

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

Applications
Automotive

Regional Availability
Asia Pacific