NORYL GTX™ RESIN GTX951W

REGION ASIA

DESCRIPTION

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.

TYPICAL PROPERTY VALUES

Revision 20190821

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	65	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	55	%	ASTM D 638
Flexural Stress, yld, 2.6 mm/min, 100 mm span	100	MPa	ASTM D 790
Flexural Stress, brk, 2.6 mm/min, 100 mm span	2450	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	211	J/m	ASTM D 256
Izod Impact, notched, -30°C	100	J/m	ASTM D 256
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	195	°C	ASTM D 648
CTE, -40°C to 40°C, flow	9.E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.5E-05	1/°C	ASTM E 831
PHYSICAL			
Specific Gravity	1.1	-	ASTM D 792
Melt Flow Rate, 280°C/2.16 kgf	24	g/10 min	ASTM D 1238
Melt Flow Rate, 280°C/5.0 kgf	65	g/10 min	ASTM D 1238
ELECTRICAL			
Dielectric Strength, in oil, 1.6 mm	22.4	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.017	-	ASTM D 150
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-102315341	-	-
UL Recognized, 94HB Flame Class Rating	1.2	mm	UL 94
INJECTION MOLDING			
Drying Temperature	100 – 120	°C	
Drying Time	2 – 3	hrs	
Maximum Moisture Content	0.07	%	
Melt Temperature	280 – 310	°C	
Nozzle Temperature	270 – 300	°C	
Front - Zone 3 Temperature	280 – 300	°C	
Middle - Zone 2 Temperature	270 – 290	°C	
Rear - Zone 1 Temperature	260 – 280	°C	
Hopper Temperature	60 – 80	°C	
Mold Temperature	80 – 120	°C	

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(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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