

Product Texts

NORYL GTX™ 975 resin is a conductive, 18% mineral reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade combines high stiffness and excellent temperature resistance with conductivity for primerless electrostatic painting. NORYL GTX975 was designed for in- or on-line painted exterior automotive trim parts such as tank flaps and corner panels.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	10	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4200	MPa	ISO 527
Yield stress	65	MPa	ISO 527
Yield strain	3.5	%	ISO 527
Stress at break	65	MPa	ISO 527
Strain at break	4	%	ISO 527
Flexural modulus	4000	MPa	ISO 178
Charpy impact strength, +23°C	40	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	35	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	3	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	3	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	40	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	35	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	4	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	4450	MPa	ASTM D 638
Tensile Strength at Yield	69	MPa	ASTM D 638
Tensile Strength at Break	68	MPa	ASTM D 638
Elongation at Yield	3.5	%	ASTM D 638
Elongation at Break	4.5	%	ASTM D 638
Flexural Modulus	4000	MPa	ASTM D 790
Izod Impact notched, 1/8 in	35	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	30	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	195	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	200	°C	ISO 306
Coeff. of linear therm. expansion, parallel	50	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	65	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 66 psi	210	°C	ASTM D 648
Vicat Temperature	215	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	3.5	%	Sim. to ISO 62
Humidity absorption	1.1	%	Sim. to ISO 62
Density	1200	kg/m ³	ISO 1183
Density	1250	kg/m ³	ASTM D 792

NORYL GTX™ Resin GTX975 - Americas

(PPE+PA*)-MF18

Saudi Basic Industries Corporation (SABIC)

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 110	°C	-
Pre-drying - Time	2 - 3	h	-
Processing humidity	≤0.02	%	-
Melt temperature	280 - 300	°C	-
Mold temperature	100 - 120	°C	-
Feed temperature	80 - 100	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 290	°C	-
Zone 3	280 - 300	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America

Applications

Automotive