

Product Texts

NORYL GTX™ 902 resin is a non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade exhibits excellent chemical resistance and excellent paintability. NORYL GTX902 resin is an excellent candidate for automotive wheel cover applications.

UL Yellow Card Link [E121562-220764](https://www.ul.com/yellow-card/E121562-220764)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	12	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
Molding shrinkage, parallel	1.0	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	3.4	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	1.03	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.12	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2150	MPa	ISO 527
Yield stress	58	MPa	ISO 527
Yield strain	9.2	%	ISO 527
Stress at break	54	MPa	ISO 527
Strain at break	46	%	ISO 527
Flexural modulus	2230	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	19	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	18	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2173	MPa	ASTM D 638
Tensile Strength at Yield	56	MPa	ASTM D 638
Tensile Strength at Break	52	MPa	ASTM D 638
Elongation at Yield	12	%	ASTM D 638
Elongation at Break	38	%	ASTM D 638
Flexural Modulus	2120	MPa	ASTM D 790
Rockwell Hardness	R 118	-	ASTM D 785
Taber Abrasion Resistance	19	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	167	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	53	J/m	ASTM D 256
Temperature	-40	°C	-
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	113	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	154	°C	ISO 75-1/-2
Vicat softening temperature, A	235	°C	ISO 306
Vicat softening temperature, B	166	°C	ISO 306
Coeff. of linear therm. expansion, parallel	93	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	93	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	-
ASTM Data			
DTUL @ 66 psi	155	°C	ASTM D 648
DTUL @ 264 psi	120	°C	ASTM D 648

NORYL GTX™ Resin GTX902 - Americas
(PPE+PA*)

Saudi Basic Industries Corporation (SABIC)

Vicat Temperature	167	°C	ASTM D 1525
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Other properties	Value	Unit	Test Standard
Water absorption	2.02	%	Sim. to ISO 62
Density	1090	kg/m ³	ISO 1183
Density	1080	kg/m ³	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	275 - 300	°C	-
Mold temperature	65 - 95	°C	-
Zone 1	260 - 300	°C	-
Zone 2	265 - 300	°C	-
Zone 3	270 - 300	°C	-
Screw speed	20 - 100	rpm	-
Back pressure	0.3 - 1.4	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America

Applications

Automotive