

Product Texts

NORYL GTX™ 6203 resin is a 20% talc reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade has low coefficient of thermal expansion (CTE), excellent processability, superior dimensional stability, and good surface appearance. NORYL GTX6203 resin is an excellent candidate for automotive exterior body panels.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	20	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	20	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4900	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	2.5	%	ISO 527
Stress at break	60	MPa	ISO 527
Strain at break	10	%	ISO 527
Flexural modulus	4000	MPa	ISO 178
Charpy notched impact strength, +23°C	5	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	50	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	4600	MPa	ASTM D 638
Tensile Strength at Yield	65	MPa	ASTM D 638
Tensile Strength at Break	65	MPa	ASTM D 638
Elongation at Yield	3	%	ASTM D 638
Elongation at Break	3	%	ASTM D 638
Flexural Modulus	3800	MPa	ASTM D 790
Izod Impact notched, 1/8 in	60	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	50	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	190	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	190	°C	ISO 306
Thermal Conductivity	0.26	W/(m K)	DIN 52616
ASTM Data			
DTUL @ 66 psi	190	°C	ASTM D 648
Vicat Temperature	185	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	3.2	%	Sim. to ISO 62
Humidity absorption	1.1	%	Sim. to ISO 62
Density	1240	kg/m ³	ISO 1183
Density	1250	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 110	°C	-
Pre-drying - Time	2 - 3	h	-
Processing humidity	≤0.07	%	-
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 100	°C	-

NORYL GTX™ Resin GTX6203 - Americas

(PPE+PA*)-T20

Saudi Basic Industries Corporation (SABIC)

Feed temperature	60 - 80	°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