NORYL GTX™ Resin GTX202 - Europe

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

Product Texts

NORYL GTX™ 202 resin is a non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade exhibits excellent chemical resistance and excellent paintability.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**12**	cm³/10min	ISO 1133
Temperature	**280**	°C	-
Load	**5**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2200**	MPa	ISO 527
Yield stress	**55**	MPa	ISO 527
Yield strain	**8**	%	ISO 527
Stress at break	**50**	MPa	ISO 527
Strain at break	**20**	%	ISO 527
Flexural modulus	**1900**	MPa	ISO 178
Charpy notched impact strength, +23°C	**13**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**10**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	**13**	kJ/m²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	**10**	kJ/m²	ISO 180/1A
Ball indentation hardness	**85**	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	**170**	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	**170**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**90**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**90**	E-6/K	ISO 11359-1/-2
Thermal Conductivity	**0.23**	W/(m K)	DIN 52616

Other properties	Value	Unit	Test Standard
Water absorption	**3.5**	%	Sim. to ISO 62
Humidity absorption	**1.1**	%	Sim. to ISO 62
Density	**1100**	kg/m³	ISO 1183

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

Regional Availability

Europe

Applications

Automotive