NORYL GTX™ Resin GTX902E - Europe

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

Product Texts
NORYL GTX902E is a low cost GTX grade especially developed for automotive (wheel)trims.

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	-
Molding shrinkage, parallel	**1.4**	%	ISO 294-4, 2577

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, 23°C	**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	**13**	kJ/m²	ISO 180/1A
Izod notched impact strength	**10**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-
Ball indentation hardness	**85**	MPa	ISO 2039-1
Other Standards[S]			
Taber Abrasion Resistance	**15**	mg/1000 cycles	Producer Method

S: These properties are reported by the producer according standards that are different to our defaults.

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 0.45 MPa	**150**	°C	ISO 75-1/-2
Vicat softening temperature, B	**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
Other Standards[S]			
Thermal Conductivity, solid state	**0.23**	W/(m K)	ISO 8302

S: These properties are reported by the producer according standards that are different to our defaults.

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	-
Nozzle temperature	**270 - 300**	°C	-

Characteristics

Processing
Injection Molding

Applications
Automotive

Regional Availability
Europe