

NORYL GTX™ Resin GTX8110P - Americas

(PPE+PA*)-GF10

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL GTX™ 8110P resin is a 10% glass reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This extrudable grade has excellent chemical resistance, and high heat resistance. NORYL GTX8110P resin is anodizable, has low thermal conductivity, and is an excellent candidate for extruded thermal break applications.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	14	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	10	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4500	MPa	ISO 527
Yield stress	100	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	95	MPa	ISO 527
Strain at break	5	%	ISO 527
Flexural modulus	3400	MPa	ISO 178
Charpy notched impact strength, +23°C	8	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	6	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 0.45 MPa	205	°C	ISO 75-1/-2
Vicat softening temperature, B	225	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	225	°C	ISO 306
Coeff. of linear therm. expansion, parallel	53	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	72	E-6/K	ISO 11359-1/-2

Other properties	Value	Unit	Test Standard
Water absorption	3	%	Sim. to ISO 62
Humidity absorption	1.1	%	Sim. to ISO 62
Density	1170	kg/m ³	ISO 1183

Characteristics**Processing**

Profile Extrusion

Regional Availability

North America