

NORYL GTX™ Resin GTX8120P - Americas

(PPE+PA*)-GF20

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL GTX™ 8120P resin is a 20% glass reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This extrudable grade has excellent chemical resistance and high heat resistance. . NORYL GTX8120P 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	12	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	10	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6800	MPa	ISO 527
Yield stress	125	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	125	MPa	ISO 527
Strain at break	3.5	%	ISO 527
Flexural modulus	5000	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	240	°C	ISO 75-1/-2
Vicat softening temperature, B	235	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	235	°C	ISO 306
Coeff. of linear therm. expansion, parallel	35	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	75	E-6/K	ISO 11359-1/-2

Other properties	Value	Unit	Test Standard
Water absorption	2.5	%	Sim. to ISO 62
Humidity absorption	1	%	Sim. to ISO 62
Density	1240	kg/m ³	ISO 1183

Characteristics**Processing**

Profile Extrusion

Regional Availability

North America