

NORYL GTX™ Resin GTX8120P - Europe

SABIC - Polyphenylene Ether + PS + PA

 Units ▼

Action

 Legend ([Open](#))

General Information
Product Description

GTX8120P is a glass filled extrudable NORYL GTX with low thermal conductivity, suitable for thermal breaks

General

Material Status	• Commercial: Active
Availability	• Europe
Filler / Reinforcement	• Glass Fiber
Features	• Thermally Insulating
Uses	• Construction Applications
RoHS Compliance	• RoHS Compliant
Processing Method	• Profile Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/10.0 kg)	12.0	cm ³ /10min	ISO 1133
Water Absorption (Saturation, 23°C)	2.5	%	ISO 62
Water Absorption (Equilibrium, 23°C, 50% RH)	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6800	MPa	ISO 527-2/1
Tensile Stress (Yield)	125	MPa	ISO 527-2/5
Tensile Stress (Break)	125	MPa	ISO 527-2/5
Tensile Strain (Yield)	3.0	%	ISO 527-2/5
Tensile Strain (Break)	3.5	%	ISO 527-2/5
Flexural Modulus ²	5000	MPa	ISO 178
Flexural Stress ^{2,3}	175	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁴ (23°C)	8.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength ⁵			ISO 180/1A
-30°C	6.0	kJ/m ²	
23°C	7.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (0.45 MPa, Unannealed, 4.00 mm, 64.0 mm Span)	240	°C	ISO 75-2/Bf
Vicat Softening Temperature			
--	235	°C	ISO 306/B50
--	235	°C	ISO 306/B120
CLTE - Flow (23 to 60°C)	3.5E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse (23 to 60°C)	7.5E-5	cm/cm/°C	ISO 11359-2

Processing Information
Extrusion Notes

Profile Extrusion Parameters

- Drying Temperature: 110 to 120°C
- Drying Time: 2 to 4 hrs
- Melt Temperature: 270 to 280°C
- Calibrator Temperature: 80 to 100°C

Notes
¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min

³ at Yield

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