

NORYL GTX™ GTX8120P resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics Europe

Message:

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

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Thermally Insulating		
RoHS Compliance	RoHS Compliant		
Processing Method	Profile Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/10.0 kg)	4.00	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	2.5	%	
Equilibrium, 23°C, 50% RH	1.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6800	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	125	MPa	
Break	125	MPa	
Tensile Strain			ISO 527-2/5
Yield	3.0	%	
Break	3.5	%	
Flexural Modulus ¹	5000	MPa	ISO 178
Flexural Stress	175	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	8.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength ³			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 ⁴ (0.45 MPa, Unannealed, 64.0 mm Span)	240	°C	ISO 75-2/Bf
Vicat Softening Temperature	235	°C	ISO 306/B50, ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	3.5E-5	cm/cm/°C	
Transverse : 23 to 60°C	7.5E-5	cm/cm/°C	
Extrusion	Nominal Value	Unit	

Drying Temperature	110 to 120	°C
Drying Time	2.0 to 4.0	hr
Melt Temperature	270 to 280	°C
Calibration Temp, First	80.0 to 100	°C

NOTE		
1.	2.0 mm/min	
2.	80*10*4 sp=62mm	
3.	80*10*4	
4.	80*10*4 mm	

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