

NORYL GTX™ EXNX0080 resin

Polyphenylene Sulfide + PPE

SABIC Innovative Plastics

Message:

NORYL APS* EXNX0080 resin is a glass filled, high performance blend of PPE/PPS that exhibits an excellent balance of high-heat resistance, strength, flame retardant, and conductivity. This grade can be electro-statically painted or powder coated without the need for a conductive primer. The resin is injection moldable and only available in black.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Conductive		
	Flame Retardant		
	High Heat Resistance		
	High Strength		
	Paintable		
	Statically Conductive		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.62	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	16	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/2.16 kg)	10.0	cm³/10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.80	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	0.020	%	
Equilibrium, 23°C, 50% RH	0.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	16300	MPa	ASTM D638
--	15000	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	79.2	MPa	ASTM D638
Yield	89.0	MPa	ISO 527-2/5
Break ³	79.2	MPa	ASTM D638
Break	89.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	0.64	%	ASTM D638
Yield	0.64	%	ISO 527-2/5
Break ⁵	0.66	%	ASTM D638

Break	0.66	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	12700	MPa	ASTM D790
-- ⁷	13600	MPa	ISO 178
Flexural Stress			
--	0.980	MPa	ISO 178
Yield, 50.0 mm Span ⁸	118	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	35	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-30°C	37	J/m	ASTM D256
23°C	34	J/m	ASTM D256
-30°C ¹⁰	34	kJ/m ²	ISO 180/1A
23°C ¹¹	34	kJ/m ²	ISO 180/1A
Instrumented Dart Impact (23°C, Total Energy)	3.60	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	234	°C	ASTM D648
1.8 MPa, Unannealed, 100 mm Span ¹²	229	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	231	°C	ASTM D1525, ISO 306/B120 ¹³
--	233	°C	ISO 306/B50
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	2.7E-5	cm/cm/°C	
Transverse : -40 to 40°C	4.9E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.5E+4	ohms · cm	ASTM D257
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*4 sp=62mm		
10.	80*10*4		
11.	80*10*4		
12.	120*10*4 mm		
13.	Rate B (120°C/h), Loading 2 (50 N)		

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