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 reinforced material		
Features	Conductivity High strength Static conduction Sprayable Heat resistance, high Flame retardancy		
RoHS Compliance	RoHS compliance		
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 - 0.80	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.020	%	ISO 62
Equilibrium, 23°C, 50% RH	0.0	%	ISO 62
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
Fracture [3]	79.2	MPa	ASTM D638
Fracture	89.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield [4]	0.64	%	ASTM D638
Yield	0.64	%	ISO 527-2/5

Fracture [5]	0.66	%	ASTM D638
Fracture	0.66	%	ISO 527-2/5
Flexural Modulus			
50.0mm span [6]	12700	MPa	ASTM D790
-- [7]	13600	MPa	ISO 178
Flexural Stress			
--	0.980	MPa	ISO 178
Yield, 50.0mm span [8]	118	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [9] (23°C)	35	kJ/m²	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/m²	ISO 180/1A
23°C [11]	34	kJ/m²	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, 3.20mm	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 10 [13]
--	233	°C	ISO 306/B50
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	2.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	4.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	2.5E+4	ohms·cm	ASTM D257
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	Type 1, 5.0 mm/min		
5.	Type 1, 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.	标准 B (120°C/h), 载荷2 (50N)

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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