

NORYL™ BN31 resin

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

Blowmoldable. Excellent processability and flammability. Good heat resistance. Low temperature impact strength. Dimensional stability.

General Information			
UL YellowCard	E121562-221152		
Features	Good dimensional stability		
	Workability, good		
	Low temperature impact resistance		
	Heat resistance, high		
Processing Method	Extrusion blow molding		
Multi-Point Data	Elastic Modulus vs Temperature (ASTM D4065)		
	Flexural DMA (ASTM D4065)		
	Tensile Creep (ASTM D2990)		
	Tensile Stress vs. Strain (ASTM D638)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.60 - 0.70	%	Internal method
Outdoor Suitability	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	48.3	MPa	ASTM D638
Flexural Modulus ² (50.0 mm Span)	2410	MPa	ASTM D790
Flexural Strength ³ (Break, 50.0 mm Span)	72.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	110	J/m	ASTM D256
23°C	270	J/m	ASTM D256
Dart Drop Impact			ASTM D3029
-40°C	33.9	J	ASTM D3029
23°C	13.6	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	82.2	°C	ASTM D648
RTI Elec	95.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI	95.0	°C	UL 746

Electrical	Nominal Value	Test Method
High Amp Arc Ignition (HAI)	PLC 2	UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 4	UL 746
Hot-wire Ignition (HWI)	PLC 2	UL 746
Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.47 mm	V-0	UL 94
3.00 mm	5VA	UL 94
Extrusion	Nominal Value	Unit
Drying Temperature	93.3	°C
Drying Time	2.0 - 4.0	hr
Cylinder Zone 1 Temp.	204 - 216	°C
Cylinder Zone 2 Temp.	207 - 216	°C
Cylinder Zone 3 Temp.	207 - 216	°C
Cylinder Zone 4 Temp.	210 - 216	°C
Cylinder Zone 5 Temp.	210 - 216	°C
Adapter Temperature	210 - 216	°C
Die Temperature	216 - 221	°C
Extrusion instructions		
Head - Zone 6 - Top Temperature: 210 - 216 °CHead - Zone 7 - Bottom Temperature: 213 - 218 °CMelt Temperature (Parison): 210 - 216 °CMold Temperature: 52 - 71 °C		
NOTE		
1.	Type 1, 50mm/min	
2.	1.3 mm/min	
3.	1.3 mm/min	

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