

NORYL™ RESIN BN3 1

REGION AMERICAS

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20180905

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	48	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	72	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2410	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	267	J/m	ASTM D 256
Izod Impact, notched, -40°C	106	J/m	ASTM D 256
Gardner, 23°C	13	J	ASTM D 3029
Gardner, -40°C	33	J	ASTM D 3029
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	82	°C	ASTM D 648
Relative Temp Index, Elec	95	°C	UL 746B
Relative Temp Index, Mech w/impact	80	°C	UL 746B
Relative Temp Index, Mech w/o impact	95	°C	UL 746B
PHYSICAL			
Specific Gravity	1.1	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.6 – 0.7	%	SABIC method
ELECTRICAL			
Hot Wire Ignition {PLC}	2	PLC Code	UL 746A
High Voltage Arc Track Rate {PLC}	4	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	2	PLC Code	UL 746A
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating	1.47	mm	UL 94
UL Recognized, 94-5VA Rating	2.99	mm	UL 94
UV-light, water exposure/immersion	F1	-	UL 746C
EXTRUSION BLOW MOLDING			
Drying Temperature	95	°C	
Drying Time	2 – 4	hrs	
Melt Temperature (Parison)	210 – 215	°C	
Barrel - Zone 1 Temperature	205 – 215	°C	
Barrel - Zone 2 Temperature	205 – 215	°C	
Barrel - Zone 3 Temperature	205 – 215	°C	
Barrel - Zone 4 Temperature	210 – 215	°C	
Adapter - Zone 5 Temperature	210 – 215	°C	
Head - Zone 6 - Top Temperature	210 – 215	°C	
Head - Zone 7 - Bottom Temperature	215 – 220	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Temperature	50 – 70	°C	
Die Temperature	215 – 220	°C	

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