

Noryl* Resin BN30

Americas: COMMERCIAL

Blowmoldable. DTUL 180F. UL rated.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 50 mm/min	42	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	59	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2240	MPa	ASTM D 790
IMPACT	Value	Unit	Standard
Izod Impact, notched, 23°C	267	J/m	ASTM D 256
Gardner, 23°C	10	J	ASTM D 3029
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 6.4 mm, unannealed	82	°C	ASTM D 648
Relative Temp Index, Elec	50	°C	UL 746B
Relative Temp Index, Mech w/impact	50	°C	UL 746B
Relative Temp Index, Mech w/o impact	50	°C	UL 746B
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.09	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.6 - 0.8	%	SABIC Method
ELECTRICAL	Value	Unit	Standard
Arc Resistance, Tungsten {PLC}	6	PLC Code	ASTM D 495
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}	3	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	2	PLC Code	UL 746A
FLAME CHARACTERISTICS	Value	Unit	Standard
UL Recognized, 94V-2 Flame Class Rating (3)	1.47	mm	UL 94
UL Recognized, 94V-1 Flame Class Rating (3)	2.99	mm	UL 94
UL Recognized, 94-5VA Rating (3)	3.81	mm	UL 94

Source GMD, last updated:01/05/2000

Processing

- Dry for recommended time and temperature as overdrying can cause loss of physical properties and/or create appearance defects.

Parameter	Value	Unit
Extrusion Blow Molding		
Drying Temperature	95	°C
Drying Time	2 - 4	hrs
Melt Temperature (Parison)	205 - 220	°C
Barrel - Zone 1 Temperature	195 - 210	°C
Barrel - Zone 2 Temperature	195 - 215	°C
Barrel - Zone 3 Temperature	195 - 215	°C
Barrel - Zone 4 Temperature	195 - 215	°C
Adapter - Zone 5 Temperature	195 - 215	°C

Head - Zone 6 - Top Temperature	195 - 215	°C
Head - Zone 7 - Bottom Temperature	195 - 215	°C
Mold Temperature	50 - 70	°C
Die Temperature	200 - 220	°C

Source GMD, last updated:01/05/2000

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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