



PRODUCT INFORMATION

**NILSAN S V0 NB L**

ABS flame retardant UL94 V0 (non blooming type), heat and UV stabilized, good mechanical properties, good surface appearance.

**ISO short Form** ISO 1043: ABS-FR(17)  
**Form** Pellets  
**UL file** E143048

**Key Features**

- Improved UV resistance
- Improved thermal resistance
- Designed for injection moulding applications
- Flame retardant

**Availability**

- All colours

**Compliance**

- UL94 V0 approved at 1,60 mm. UL746 B approved.

**Process**

- INJECTION MOULDING

**Application**

- General purpose applications
- Electronic

Property	Method	Unit	Value	Condition	State
<b>ELECTRICAL</b>					
Tracking Resistance (CTI - Method A)	IEC 60112	Volt	> 400		
<b>PHYSICAL</b>					
Density (+23°C)	ISO 1183	g/cm <sup>3</sup>	1,25		
Mould Shrinkage (Parallel)	Internal method	%	0,4 - 0,7		
Mould Shrinkage (Normal)	Internal method	%	0,4 - 0,7		
Melt Flow Rate (MFR)	ISO 1133	g/10 min	20	220°C - 10 kg	
<b>MECHANICAL</b>					
Tensile Modulus	ISO 527-1,2	MPa	2600	Speed 1 mm/min	
Tensile Yield Strength	ISO 527-1,2	MPa	40	Speed 50 mm/min	
Elongation at Break	ISO 527-1,2	%	10	Speed 50 mm/min	
Flexural Modulus	ISO 178	MPa	2400	Speed 1 mm/min	
Flexural Max Strength	ISO 178	MPa	65	Speed 1 mm/min	

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IZOD Notched Impact (+23°C)	ASTM D256	J/m	100
CHARPY Notched Impact (+23°C)	ISO 179/1eA	kJ/m <sup>2</sup>	9

**THERMAL**

Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	90	50°C / h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	80	Unannealed, 120°C / h
Ball Pressure Test	IEC 60695-10-2	°C	75	
Continuous service temperature	UL746 B	°C	60	
Coefficient of linear thermal expansion (parallel)	ISO 11359-1,-2	K <sup>-1</sup>	5,5x10E(-5)	-30°C / +30°C

**FLAMMABILITY**

Flame Behaviour (1,6 mm)	UL94	Class	V0	UL approved
Glow Wire Flammability Index-GWFI (2 mm)	IEC 60695-2-12	°C	960	
Oxygen index	ASTM D2863	%	27	
Needle flame test (1,6 mm)	IEC 60695-11-5	-	PASSED	

**INJECTION MOULDING**

	Value
Drying Temperature (Circulating Air Oven)	70 - 80°C
Drying Temperature (Desiccant Dryer)	70 - 80°C
Drying Time (Circulating Air Oven)	2 - 4 h
Drying Time (Desiccant Dryer)	1 - 2 h
Suggested Max Regrind	< 15%
Melt Temperature	220 - 250°C
Feed Temperature	180°C
Rear Temperature	210°C
Middle Temperature	220°C
Front Temperature	230°C
Nozzle Temperature	240°C
Mould Temperature	50 - 80°C
Injection Rate	Medium to fast
Back Pressure	0,2 - 0,5 Mpa
Screw Revolving Speed	As low as possible
Cushion	3 - 6 mm



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Screw Compression Ratio

2:1 - 3:1

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**Notes** During processing, a dehumidifying hopper dryer is recommended at a temperature of 60 to 80°C. The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine or extruder size, part geometry and design.