



DATA SHEET

NILENE E V0 LSZH

Polypropylene copolymer halogen free flame retardant UL94 V0, good flow and mechanical properties. It fulfills RoHS decree.

UL94 V0 all colours approved at 1,6 mm.

Available: all colours, UV stabilized (L).

	DRYING - conditions	Melt temperature:	190 - 220°C
Pre-heater:	80 - 90°C / 1 h	Mould temperature:	40 - 60°C
Dryer:	70 - 80°C / 1 h	Rate of injection:	MEDIUM - HIGH

PROPERTY	METHOD	unit	VALUE	condition
ELECTRICAL				
Tracking Resistance (CTI - Method A)	IEC 60112	Volt	600	
Electric Strength	IEC 60243-1	kV/mm	25	
PHYSICAL				
Melt Flow Rate (MFR)	ISO 1133	g/10 min	20	230°C - 2,16 kg
Density (23 °C)	ISO 1183	g/cm ³	1,05	
Water Absorption (24h / 23°C)	ISO 62	%	0,1	
Mould Shrinkage (Parallel)	Internal method	%	1,2	
Mould Shrinkage (Normal)	Internal method	%	1,2	
MECHANICAL				
IZOD Notched Impact	ASTM D256	J/m	25	-20°C
IZOD Notched Impact	ASTM D256	J/m	50	+23°C
Flexural Modulus	ISO 178	Mpa	1750	Speed 1 mm/min
Elongation at Break	ISO 527-1,2	%	20	Speed 50 mm/min
Tensile Yield Strength	ISO 527-1,2	Mpa	21	Speed 50 mm/min
FLAMMABILITY				
Oxygen index	ASTM D2863	%	28	
Flame Behaviour (3,2 mm)	UL94	Class	V0	
Flame Behaviour (1,6 mm)	UL94	Class	V0	UL approved
Glow Wire Flammability Index-GWFI (1,6 mm)	IEC 60695-2-12	°C	960	
Glow Wire Ignition Temperature - GWIT (1,6 m	IEC 60695-2-13	°C	750	
THERMAL				
Softening Temperature - 1 kg (VST/A/50)	ISO 306	°C	154	50°C / h
Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	72	50°C / h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	60	120°C / h
Ball Pressure Test	IEC 60695-10-2	°C	125	
Continuous service temperature (20.000 h)	IEC 60216	°C	80	
Coefficient of linear thermal expansion	ISO 11359-1,-2	K ⁻¹	7x10exp(-5)	
Deflection Temperature 0,45 MPa (HDT B)	ISO 75B	°C	130	120°C / h

These value are for natural color only. Colorant or other additives may alter some or all of these property. The data listed here fall within the normal range of product properties, but they should not be used to establish specification limits nor used alone as the basis of design.