DATA SHEET

NILENE P K30VA V0

Polypropylene homopolymer 30% glass fibres reinforced chemically coupled, flame retardant UL94 V0, good mechanical properties.

UL94 V0 approved at 1,6 mm - 3,2 mm thickness.

Available: all colours, UV stabilized (L), heat stabilized (S), laser printable (YT), detergent stabilized (D).

	DRYING - conditions		
Pre-heater:	70 - 90°C / 1 h	**Melt temperature:**	200 - 230°C
Dryer:	-	**Mould temperature:**	40 - 60°C
		Rate of injection:	MEDIUM

PROPERTY	METHOD	unit	VALUE	condition
ELECTRICAL				
Tracking Resistance (CTI - Method A)	IEC 60112	Volt	***> 600***	
PHYSICAL				
Melt Flow Rate (MFR)	ISO 1133	g/10 min	***5***	230°C - 2,16 kg
Density (23 °C)	ISO 1183	g/cm^3	***1,40***	
Water Absorption at Saturation	ISO 62	%	***0,05***	
Mould Shrinkage (Parallel)	Internal method	%	***0,1 - 0,5***	
Mould Shrinkage (Normal)	Internal method	%	***0,4 - 0,8***	
MECHANICAL				
IZOD Notched Impact	ASTM D256	J/m	***65***	+23°C
Flexural Modulus	ISO 178	Mpa	***6500***	Speed 1 mm/min
Elongation at Break	ISO 527-1,2	%	***3***	Speed 50 mm/min
Flexural Break Strength	ISO 178	Mpa	***80***	Speed 1 mm/min
Tensile Break Strength	ISO 527-1,2	Mpa	***70***	Speed 50 mm/min
FLAMMABILITY				
Flame Behaviour (3,2 mm)	UL94	Class	***V0***	UL approved
Flame Behaviour (1,6 mm)	UL94	Class	***V0***	UL approved
Needle flame test (1,6 mm)	IEC 60695-11-5	-	***PASSED***	
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	***775***	
THERMAL				
Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	***130***	50°C / h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	***140***	120°C / h
Ball Pressure Test	IEC 60695-10-2	°C	***125***	

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.