



DATA SHEET

NILENE P K40T

Polypropylene homopolymer 40% talcum filled flame rating UL94 HB.

UL94 HB approved all colours at 1,6 mm. UL746 B approved.

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

	DRYING - conditions	Melt temperature:	190 - 220°C
Pre-heater:	80 - 100°C / 1 h	Mould temperature:	50 - 70°C
Dryer:	-	Rate of injection:	HIGH

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	15	230°C - 2,16 kg
Reinforcing Charges	ISO 3451	%	40	600°C - 1h
Density (23 °C)	ISO 1183	g/cm ³	1,24	
Water Absorption (24h / 23°C)	ISO 62	%	0,05	
Mould Shrinkage (Parallel)	Internal method	%	0,9	
Mould Shrinkage (Normal)	Internal method	%	0,9	
MECHANICAL				
IZOD Notched Impact	ASTM D256	J/m	30	+23°C
IZOD Notched Impact	ASTM D256	J/m	20	-20°C
Tensile Modulus	ISO 527-1,2	Mpa	4100	Speed 1 mm/min
Flexural Modulus	ISO 178	Mpa	4000	Speed 1 mm/min
Elongation at Break	ISO 527-1,2	%	25	Speed 50 mm/min
Tensile Break Strength	ISO 527-1,2	Mpa	27	Speed 50 mm/min
Tensile Yield Strength	ISO 527-1,2	Mpa	31	Speed 50 mm/min
Elongation at yield	ISO 527-1,2	%	3,5	Speed 50 mm/min
CHARPY Notched Impact (+23°C)	ISO 179/1eA	KJ/m ²	3,5	
FLAMMABILITY				
Oxigen index	ASTM D2863	%	21	
Flame Behaviour (1,6 mm)	UL94	Class	HB	UL approved
Glow Wire Flammability Index-GWFI (1,6 mm)	IEC 60695-2-12	°C	650	
Glow Wire Ignition Temperature - GWIT (1,6 m	IEC 60695-2-13	°C	550	
THERMAL				
Softening Temperature - 1 kg (VST/A/50)	ISO 306	°C	155	
Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	95	
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	85	
Ball Pressure Test	IEC 60695-10-2	°C	125	
Coefficient of linear thermal expansion	ISO 11359-1,-2	K ⁻¹	6X10exp(-5)	

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.