Niplene F2T4 AGR HF

- Polypropylene homopolymer reinforced with 10% of glass fibre (chemically bounded) and 20% of talcum.

- Grade developed for injection moulding of complex item, characterized by good fluidity, good balance of mechanical properties and low warpage.

- Grade available also with improved heat stabilisation (SC)

	Properties	Test condition	Method	Unit	Value
Rheological	Melt Flow Index	230 °C / 2,16 Kg	ASTM D1238	g/10min	13
Mechanical	Tensile Stress at Yield	50 mm/min.	ASTM D638	MPa	56
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	90
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	4250
	Izod Notched Impact Strength	23°C/3mm	ASTM D256	J/m	60
	Rockwell Hardness		ASTM D785	R-scale	109
	Elongation	50 mm/min	ASTM D638	%	3,4
Thermal	Vicat Softening Temperature	49N / 120°C/h	ASTM D 1525	°C	120
	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	135
	Linear Expansion Coefficient	23°C/55°C	ISO 11359-2	10^-5 K^-1	5
Flame Behaviour	Glow Wire Temperature (G.W.T)	S=2.0 mm	IEC 695-2-1	°C	650
	UL 94 Rating	S=1.6 mm	UL 94	class	HB
	UL 94 Rating	S=3.2 mm	UL 94	class	HB
Electrical	Relative Permettivity	1 Mhz - dry	IEC 60250	-	2,7

	Properties	Test condition	Method	Unit	Value
					0,001
	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	60
	Surface Resistivity	dry	IEC 60093	Ω	10^15
	Volume Resistivity	dry	IEC 60093	Ω cm	10^15
Various	Density		ASTM D792	g/cm³	1,13
	Humidity Content at Equilibrium	23°C / 50 % U.R.	ISO 62	%	0,13
	Moulding Shrinkage	parallel	-	%	0,3-0,9