

# Niplene F50 AGR

**Polypropilene homopolymer reinforced with 50% of glass fibres, with chemical bond between fibres and the polymeric matrix, for the moulding of items that needs an exceptional stiffness.**

	Properties	Test condition	Method	Unit	Value
Rheological	Melt Flow Index	230 °C / 2,16 Kg	ASTM D1238	g/10min	2,5
Mechanical	Tensile Stress at Break	5 mm/min	ASTM D638	MPa	110
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	180
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	10500
	Izod Notched Impact Strength	23°C/3mm	ASTM D256	J/m	130
	Izod Notched Impact Strength	-20°C/3mm	ASTM D256	J/m	90
	Rockwell Hardness		ASTM D785	R-scale	115
	Elongation	50 mm/min	ASTM D638	%	2,5
Thermal	Vicat Softening Temperature	49N / 120°C/h	ASTM D 1525	°C	146
	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	158
	Linear Expansion Coefficient	23°C/55°C	ISO 11359-2	10 <sup>-5</sup> K <sup>-1</sup>	3
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 Permittivity	1 Mhz - dry	IEC 60250	-	2,7
	Dissipation Factor	1 Mhz - dry	IEC 60250	-	0,001
	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	60
	Surface Resistivity	dry	IEC 60093	Ω	10 <sup>14</sup>
	Volume Resistivity	dry	IEC 60093	Ω cm	10 <sup>15</sup>
Various	Density		ASTM D792	g/cm <sup>3</sup>	1,33



Properties	Test condition	Method	Unit	Value
				0,1
Moulding Shrinkage	parallel	-	%	0,2-0,4
Moulding Shrinkage	transversal	-	%	0,3-0,6

All values are approximate values and are given after the best knowledge and conscience. Hence, because of variable processing terms or processing procedures an obligation cannot be derived from it.

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