

Niplene F45 AGR LV2

Polypropylene homopolymer reinforced with 45% of glass fibres chemically bounded, heat stabilized, with low emission. - Grade developed for injection moulding of items characterized by high stiffness and good dimensional stability.

	Properties	Test condition	Method	Unit	Value
Rheological	Melt Flow Index	230 °C / 2,16 Kg	ASTM D1238	g/10min	3
Mechanical	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	170
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	9200
	Izod Notched Impact Strength	23°C/3mm	ASTM D256	J/m	135
	Rockwell Hardness		ASTM D785	R-scale	115
	Elongation	50 mm/min	ASTM D638	%	2,7
	Tensile Modulus	5 mm/min	ASTM D638	MPa	11000
	Tensile Stress at Break	5 mm/min	ASTM D638	MPa	107
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	154
	Linear Expansion Coefficient	23°C/55°C	ISO 11359-2	10 ⁻⁵ K ⁻¹	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 ¹⁴
	Volume Resistivity	dry	IEC 60093	Ω cm	10 ¹⁵
Various	Density		ASTM D792	g/cm ³	1,3
	Humidity Content at	23°C / 50 % U.R.	ISO 62	%	0,1



	Properties	Test condition	Method	Unit	Value
	Moulding Shrinkage	parallel	-	%	0,15-0,55
	Moulding Shrinkage	transversal	-	%	0,25-0,75

TEKUMA KUNSTSTOFF GMBH