

NIPLENE F30



Polypropylene homopolymer, reinforced with 25% glass fibre. Standard quality.

Properties	Test Condition	Method	Unit	F30
Rheological				
Melt flow index	230°C/2,16 Kg	ASTM D1238	g/10'	1,6
Mechanical				
Tensile stress at Yield	5 mm/min	ASTM D638	Mpa	-
Tensile stress at break	5 mm/min	"	Mpa	65
Elongation	5 mm/min	"	%	5
Flexural maximum stress	1,3 mm/min	ASTM D790	Mpa	85
Flexural elastic modulus	1,3 mm/min	"	Mpa	5500
IZOD notched impact strength 3.2 mm	23°C 3,2 mm	ASTM D256	j/m	80
" "	0°C 3,2 mm	"	j/m	-
" "	- 20°C 3,2 mm	"	j/m	50
Rockwell hardness		ASTM D785	Scala R	105
Thermal				
Vicat softening temperature	49N / 120°C/h	ASTM D1525	°C	130
Heat distortion temperature HDT	1,82 Mpa	ASTM D648	°C	145
Linear expansion coefficient	23/55 °C	ISO 11359-2	10 ⁻⁵ K ⁻¹	4
Flame behaviour				
Glow wire temperature GWT	S=2,0mm	IEC 695-2-1	°C	650
UL 94 rating	S=1,6mm	UL 94	Classe	HB
	S=3.2mm	UL 94	Classe	HB
Electrical				
Relative permittivity	1 MHz = secco	IEC 60250	-	2,7
Dissipation factor	1 MHz = secco	IEC 60250	-	0
Dielectric strength	S=1mm	IEC 60243-1	KV/mm	60
Surface resistivity	secco	IEC 60093	ohm	10 ¹⁴
Volume resistivity	secco	IEC 60093	ohm cm.	10 ¹⁵
Various				
Density	23°C	ASTM D792	g/cm ³	1,12
Humidity content at equilibrium	23°C / 50 % U.R.	ISO 62	%	0,2
Moulding shrinkage	parallelo	-	%	0,3-0,8
	normale	-	%	0,5-0,8

NOTA:

Data are provided for guidance purpose only, and cannot be considered as Sale Specification.

