

# Niblend F17

PC-ABS alloy reinforced with 17% glass fibre, of high thermic resistance for the injection moulding

Of items needing high hardness and dimensional stability even at high temperatures.

	Properties	Test condition	Method	Unit	Value
Rheological	Melt Flow Index	260°C / 5 kg	ASTM D1238	g/10min	18
Mechanical	Tensile Stress at Break	5 mm/min	ASTM D638	MPa	70
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	100
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	5000
	Izod Notched Impact Strength	-20°C/3mm	ASTM D256	J/m	50
	Rockwell Hardness		ASTM D785	R-scale	118
	Izod Notched Impact Strength	23°C/3,2 mm	ASTM D256	J/m	70
	Elongation	50 mm/min	ASTM D638	%	3
Thermal	Vicat Softening Temperature	49N / 120°C/h	ASTM D 1525	°C	123
	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	115
	Coef. Dilatazione Termica Lineare	23/55 °C	ISO 11359-2	10 <sup>-5</sup> K <sup>-1</sup>	4
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	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	25
	Relative Permittivity	1 Mhz = secco	IEC 60250	-	2,9
	Dissipation Factor	1 Mhz = secco	IEC 60250	-	0,05

	Properties	Test condition	Method	Unit	Value
					10 <sup>15</sup>
	Volume Resistivity	secco	IEC 60093	□ □ cm	10 <sup>15</sup>
Physical	Density	23°C	ASTM D792	g/cm <sup>3</sup>	1,23
Various	Humidity Content at Equilibrium	23°C / 50 % U.R.	ISO 62	%	0,2
	Moulding Shrinkage	parallel	-	%	0,4 - 0,8

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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