

Niblend FR51

PC-ABS Alloy, flame retardant, with UL 94 V0 1.6 mm rating

	Properties	Test condition	Method	Unit	Value
Rheological	Melt Flow Index	260°C / 5 kg	ASTM D1238	g/10min	40
Mechanical	Tensile Stress at Yield	50 mm/min.	ASTM D638	MPa	45
	Tensile Stress at Break	5 mm/min	ASTM D638	MPa	40
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	2500
	Rockwell Hardness		ASTM D785	R-scale	110
	Izod Notched Impact Strength	23°C/3,2 mm	ASTM D256	J/m	300
	Elongation	50 mm/min	ASTM D638	%	50
Thermal	Vicat Softening Temperature	49N / 120°C/h	ASTM D 1525	°C	100
Flame Behaviour	Glow Wire Temperature (G.W.T)	S=2.0 mm	IEC 695-2-1	°C	960
	UL 94 Rating	S=1.6 mm	UL 94	class	V0
	UL 94 Rating	S=3.2 mm	UL 94	class	V0
Various	Density		ASTM D792	g/cm ³	1,22
	Humidity Content at Equilibrium	23°C / 50 % U.R.	ISO 62	%	0,2
	Moulding Shrinkage	parallel	-	%	0,4 - 0,8