

Niblend S45 HG

PC-ABS alloy of medium-high thermic resistance for the injection moulding of items

Requiring good aesthetic characteristics.

	Properties	Test condition	Method	Unit	Value
Rheological	Melt Flow Index	260°C / 5 kg	ASTM D1238	g/10min	20
Mechanical	Tensile Stress at Yield	50 mm/min.	ASTM D638	MPa	40
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	65
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	2300
	Rockwell Hardness		ASTM D785	R-scale	115
	Izod Notched Impact Strength	23°C/3,2 mm	ASTM D256	J/m	400
	Izod Notched Impact Strength	-20°C/3,2 mm	ASTM D256	J/m	120
	Elongation	50 mm/min	ASTM D638	%	30
Thermal	Vicat Softening Temperature	49N / 120°C/h	ASTM D 1525	°C	117
	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	106
	Coef. Dilatazione Termica Lineare	23/55 °C	ISO 11359-2	10 ⁻⁵ K ⁻¹	8
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
	Surface Resistivity	secco	IEC 60093	Ω	10 ¹⁵
	Volume Resistivity	secco	IEC 60093	Ω cm	10 ¹⁵
Various	Density		ASTM D792	g/cm ³	1,1

	Properties	Test condition	Method	Unit	Value
					0,2
	Moulding Shrinkage	parallel	-	%	0,5-0,8