

# NYCOLON A6L-12

**Nylon 12 special compound suitable for flexible pipes, tubes and sheathing of “technical cables”.**

## Description/Descrizione.

Nycolon A6L-12 is a thermoplastic Polyamide 12 compound based .This compound offer outstanding chemical. Oil and fuel and hydrolysis resistance. It is also excellent in physical and mechanical performances resulting in tubes and sheathings with optimal harsh weather resistance and termite resistant. Good process ability and excellent extrusion stability. Compound available in various colour upon request.

Physical-Mechanical properties Proprietà fisico-meccaniche	Unit Unità	Typical Values Valori Tipici	Test Methods
-Specific gravity @ 23°C/Densità a 23°C	g/cm <sup>3</sup>	1,02	ISO 1183-3
-Hardness in Sh D @ 23°C/Durezza in shore D 23°C	Sh D	70	ISO 868
-Mechanical properties/Proprietà meccaniche			
Tensile strength/Carico a rottura	MPa	50	ISO 527-1-2
Elongation at break/Allungamento a rottura	%	300	ISO 527
Stress At break	MPa	50	ISO 527
Flexural strength	MPa	55	ISO 178
Melting point	°C	173-178	ISO 1874
Flexural Modulus	MPa	1100	ISO 178
Impact Strength 23°C Charpy , notched -30°C	Kj/m <sup>2</sup>	7 6	ISO 179/1eA
Heat Defection temperature 0.45Mpa	°C	130	ISO 752
Thermal stability/Stabilità termica	Min.	≥80'	ISO R 182
Tear strength/resistenza alla Lacerazione	N/mm	65	DIN 53515
-Cold Flex/Cold flex	°C	-30	ISO 458
Volume Resistivity @ 20°C/Resistività di volume a 20°C	Ω x cm	4X10 <sup>13</sup>	ASTM D 257
Abrasion/Resistenza all'abrasione	mm <sup>3</sup>	50	DIN 53516

Typical values above reported are the averages of the five values obtained on moulded plate specimens of 1 mm thickness, conditioned @ 23°C/I valori riportati sono la media di 5 valori ottenuti su provini da piastra stampata di 1mm di spessore, condizionato a 23°C .

## Processing conditions/Condizioni di processo

Pre-dry always before use ( 3 hrs @ 70°C at least)

Zone/a 1	Zone/a 2	Zone/a 3	Zone/a 4	Collar/e	Head/Testa	Die/Stampi
175	180-190	180-190	190-200	200-210	200-210	210-220

Final conditions depend on the available extruder line and screw design;melt temperature

### Use of coloured MBI /Uso di MB colorati

Dry all coloured MB,black especially, at 70°C for 3hrs at least/Essiccare tutti i MB colorati, specialmente il nero, per almeno 3 ore a 70°C.

### .Packaging/Imballo

Material is available in 25 Kg multilayer bags on pallet or in 500 Kg cartboard boxes on pallet with a single multilayer resistant bag.