"SPIRAL GUARD™" PROTECTIVE WRAPPING DATA SHEET TYPICAL PROPERTIES

The raw material, from which "Spiral Guard™" is produced, is manufactured from molecular weight extrusion grade polyethylene. The product exhibits extremely good environmental stress crack resistance (ERS) and conforms to the Australian Standard AS2070 – plastic material for food consumption use.

PHYSICAL PROPERTIES	TEST METHOD	UNIT	VALUE
Density	ASTM D 1505	g/cm^3	0.958
Melt index			
- 2, 16kg	ASTM D 1238	g/10 min	0.4
- - 5,0kg	ASTM D 1238	g/10 min	0.40
- Carbon Black Content	ASTM D 1603	%	4-4.5
Tensile Properties	ASTM D 638 (IV)		
Tensile strength at yield (min)		kg/c m^2	280
Tensile strength at break (min)		kg/cm ^{2}	350
Elongation at break (min)		%	1000
Flexural modulus	ASTM D 790	kg/cm ^{2}	12000
Environmental Stress Crack Resistance Condition B, F50(min)	ASTM D 1693	hr	1000
Hardness(mir;,)	ASTM D 2240	s hore "D"	66
Impact strength (lzod, method A, min)	ASTM D 256	kg-cm/cm	40
Brittleness temp. (min)	ASTM D 746	C	-60
Vicat softening temp.	ASTM D 1525	C	128
Oxidative Induction Time at 200 C	ISO / TR 10837	%	16
Modulus of Elasticity	ASTM D 790	min	40
Thermal conductivity	ASTM D 177	Watt/m C	0.4
Coef. of liner theral expansion	ASTM D 696	1 C	0.00013
Specification data			
Material Classification	ASTM D } 248	-	Ill C 5 P34
Cell Classification	ASTM D 3350	-	345434(PE3408)

These are typical values for compression moulded specimens; the properties of these materials in extruded pipe form, or as moulded fittings will vary slightly in each individual case owing to morphological differences arising from the different processing methods.