

“PIG’S TAIL™” PROTECTIVE WRAPPING
FIRE RESISTANT ANTI STATIC (FRAS) DATA SHEET
TYPICAL PROPERTIES

Pig’s Tail™ FRAS is a conductive thermoplastic compound on polypropylene base. Conductivity is achieved by using special conductive carbon black. In addition to low electrical resistivity FRAS is flame retardant and has extremely good balance of mechanical properties.

PHYSICAL PROPERTIES	TEST METHOD	UNIT	VALUE
Density		g/cm ³	0.97
Melt flow index (230 C /2,16kg)	ASTM D-1238	g/10 min	2
(230 C 5,0kg)	ASTM D-1238	g/10 min	-
Tensile strength	ASTM D-638	MPa	20
Yield strength	ASTM D-638	MPa	24
Elongation at break	ASTM D-638	%	300
Elongation at yield	ASTM D-638	%	16
Modulus of Elasticity	ASTM D-790	MPa	1500
Impact strength Charpy			
23 C	ASTM D-256	kJ/m ²	35
20 C	ASTM D-256	kJ/m ²	15
Impact strength Charpy, notched			
23 C	ASTM D-256	kJ/m ²	6
20 C	ASTM D-256	kJ/m ²	2
Vicat softening point 1,0kg	ASTM D-1525	°C	150
HDT			
0,45 Mpa	ASTM D-648	°C	105
1,8 Mpa	ASTM D-648	°C	58
Volume resistivity	ASTM D-257	- cm	< 10 ³
Surface resistivity	ASTM D-257	-	< 10 ⁵
Shrinkage	ASTM D-955	%	1.2-1.5
Hardness Shore D	ASTM D-2240		72
Rate of heat release	ISO DIS 5660	KW/m ²	218
Point of inflammation	ISO DIS 5660	s	20
Specific extinction area	ASTM E-1354	m ² /kg	1220