

PLASTICS INDUSTRY CASE STUDY

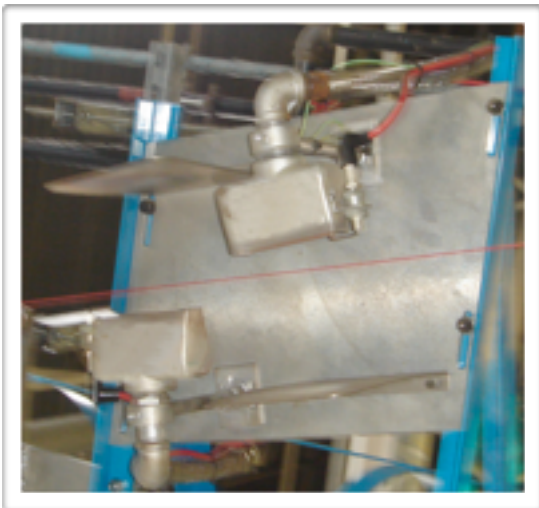
IN LINE PLASTIC TUBE AND WIRE INSULATION FLAME TREATMENT

IN LINE ELECTRIC CABLE TREATMENT

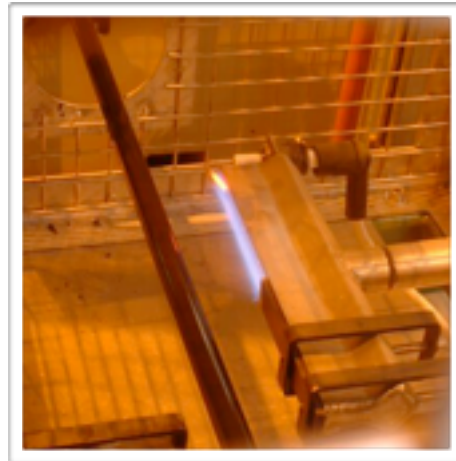
Gas flames, if accurately controlled, can be used to carry out a range of surface treatments on extruded plastic tubular products.

1. Basic thermal treatments include:

1.1 Pre-print surface drying and post print ink drying of coatings to improve cure and harden and polish the surface of inks and coatings.



After print treatment of electric cable to harden and polish ink lettering



Adjustable flame length burner for different product speed.



RAPIDFLAME LTD
Brian Royd Mills,
Saddleworth Road,
Halifax, West
Yorkshire, HX4 8NF
United Kingdom

Tel: +44 (0)1422 311 244
Email: info@rapidflame.com
www.rapidflame.com



Certificate No. 2806QM8001

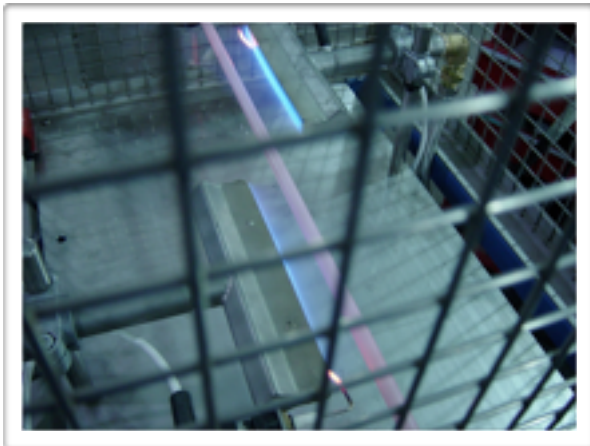
PLASTICS INDUSTRY CASE STUDY

2. Technical treatments include.

2.1 Surface adhesion promotion of plastic by reaction of reactive flame gasses with plastic surface molecules to increase surface energy of the plastic tube and improve adhesion of inks and coatings.



Packed system on plastic tube extrusion lines



High speed line with 300 mm burners



Six systems installed operating on Propane



RAPIDFLAME LTD
Brian Royd Mills,
Saddleworth Road,
Halifax, West
Yorkshire, HX4 8NF
United Kingdom

Tel: +44 (0)1422 311 244
Email: info@rapidflame.com
www.rapidflame.com



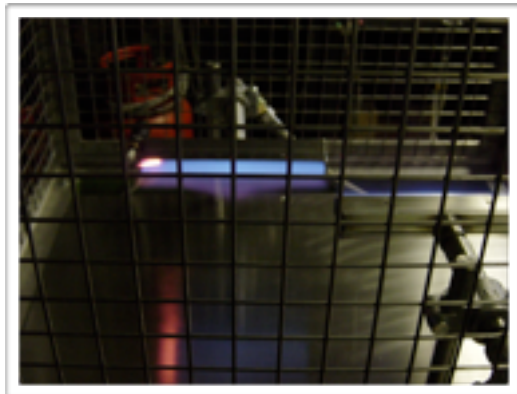
Certificate No. 2806QM8001

PLASTICS INDUSTRY CASE STUDY

2.2 Surface melting and realignment of the surface molecules to remove weaknesses and micro cracks. This enables more efficient stretching of the tube to (up to 50%) to give greater production flexibility.



Systems installed in UK (3 systems) and Wuxi, China (2 systems).



Linear CRB burners, for surface
adhesion improvement.



Circular high intensity burners for
surface melting and adjustment prior
to stretching



RAPIDFLAME LTD
Brian Royd Mills,
Saddleworth Road,
Halifax, West
Yorkshire, HX4 8NF
United Kingdom

Tel: +44 (0)1422 311 244
Email: info@rapidflame.com
www.rapidflame.com



Certificate No. 2806QM8001