



# CONDALÉ PLASTICS LTD

PRECISION EXTRUDERS  
IN ALL THERMOPLASTICS



# PLASTICS EXTRUSIONS FOR THE 21ST CENTURY

Condale Plastics, established since 1969, has achieved an enviable reputation for high quality, service and versatility in the design and production of extrusions. Our skills and tenacity in the generation of new designs complemented by our manufacturing experience of almost 40 years enables us to produce the most complex profiles in the shortest of lead-times.

With a manufacturing base of 50,000 square feet and over 30 extrusion lines located in East Grinstead, we are the largest general purpose extrusion company in the South of England. Our modern extrusion plant and in-house design and toolmaking facilities provide the flexibility to satisfy the most demanding customers.

Our purpose built tool-room incorporates state of the art design systems and tool manufacturing equipment. The CAD facility accepts designs in a range of formats. If required, our well-trained and experienced technical support and design staff will assist you with everything from the selection of materials to the optimisation of your design for manufacture.

Once a design is approved, drawings are transferred seamlessly across our secure network to the latest wire-erosion equipment and computer controlled machining centres. This facility supports our extrusion plant but more importantly enables us to develop and produce tooling to suit our customer's needs in the shortest possible time. Over the years this has proved invaluable.



- 1 Co-extrusions
- 2 Flexible extrusions
- 3 Lighting diffusers
- 4 Rigid profiles and tubes



Condale Plastics produce rigid and flexible profiles, tubes and co-extrusions (where a combination of flexible and rigid PVC is extruded together or two different colours are produced together). We produce profiles up to 300mm wide and tubes to 160mm outside diameter.

Plastic extrusions are available in a wide range of materials including:- uPVC(Rigid), PVC(Flexible), Cellular PVC, ABS, TPE, Polycarbonate/ABS Alloy, Polythene, Polypropylene, Polystyrene, High Clarity PETG, Acrylic, Polycarbonate and Nylon. Other thermoplastic materials are available if required. Please consult with our technical support staff on your specific requirements.

We hold a large range of rigid PVC colours in stock and in addition can offer a full colour matching service for across the range of materials.

Accurate in-line cutting facilities are available. For added accuracy we can offer an out of line cutting service.

We can carry out post or in-line fabrication tasks such as:- drilling, punching and slotting.

We also have our own library of tools; this includes a comprehensive range of tube diameters and an extensive range of profile tools to produce rectangular and square tubes, channel sections, 'H' sections, 'T' and other sections.

We supply a variety of industries including the following: Shop Fitting, Office Partitioning, Lighting, Medical Products, Building, D.I.Y, Furniture, Domestic Appliance, Marine, Sports, Toys, Point of Sale, Packaging and Automotive. Our products are regularly seen in everyday use.

Whatever your requirements Condale's resources are readily available and our Technical Sales staff would welcome the opportunity to discuss them with you. Please do not hesitate to contact us.





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Certificate No. FM30847



MATERIAL TYPE	SPECIFIC GRAVITY	SOFTENING TEMP °C	PROPERTIES	TYPICAL USES
UPVC (Rigid PVC)	1.4 - 1.6	65 - 75	Extremely versatile Wide range of colours and grades (including clear grades) Indoor and outdoor use Food grades available Low cost	Windows, tubes, trunking, shrouds, glazing, cladding, trims, packaging, inserts, ticketing strips, toys, point of sale, tile edge trims, crack inducers
Cellular PVC	0.6 - 0.9	65 - 75	Extremely light in weight Can be produced with or without skin Indoor or outdoor use Low cost Can be nailed	Building and window products (i.e., cladding, skirting, architraves etc), finishing trims, wood replacement applications
PVC (flexible PVC)	1.2 - 1.6	-	Various softness up to semi-rigid Wide range of colours and grades plus clear Used mainly indoors, some external use Filled or unfilled grades available Low cost	Hosing, gaskets, seals, fenders, pelmets, bumpers, handrails, sleeves, straps, trims, 'T' barbed edging strips, water stops, medical tubing
ABS  ASA (Outdoor grade)	1.0 - 1.2	85 - 105	Clear grades Good high and low temperature performance Good adhesive properties Mainly internal use Most grades are food approved Good rigidity and chemical resistance High impact, medium cost Fire resistant grades available Outdoor grades	Water transfer tubing Cold rooms Freezer cabinets Toys
H.I.P. (Polystyrene)  Styrosun (Outdoor grade)	1.0	70 - 75	Mostly used indoors Some external use Good adhesive properties Range of colours also clear grades available Medium cost Fire resistant grades available Outdoor grades	Toys Light diffusers Point of sale Film cores
POLYETHYLENE High and low density	0.97 (HD) 0.91 (LD)	65	Good resistance to chemical environments Used indoors and outdoors Good low temperature performance Low toxicity levels, low cost, tough Low smoke, zero halogen grades available	Toys, water and gas pipe, tubes, packaging, protective trims
POLYPROPYLENE Homo-polymer and co-polymer	0.90	90	Good resistance to chemical environments Extremely tough but the co-polymer hinges well Good high temperature performance Mainly indoor but some external use Low toxicity levels, LSOH grades available Bio-degradable, low cost Homo-polymer is clearer and stiffer	Non load bearing hinges, toys, tubing, protective plant and tree sleeves, oil pump tubes
CLEAR P.E.T.G.	1.27	75	Food approved High clarity High impact Medium cost UV stable grades available	Packaging tubes, point of sale, card shelves, menu holders, electronic component carrier tubes
CLEAR IMPACT ACRYLIC  STANDARD ACRYLIC	1.20	80	High clarity Good impact resistance Medium cost Good light transmission	Point of sale, card shelves, menu holders, lighting applications
POLYCARBONATE	1.20	120	Good high temperature performance Extremely tough Wide range of grades available including U.V. stabilised and superior flame retardant grades Clear and opaque grades available Higher cost Limited chemical resistance	Light diffusers, low voltage light tubes for marking and directing applications Roof trims Light box
PC/ABS ALLOYS	1.2	110	Good high temperature performance Superior flame retardant properties Reasonable chemical resistance	Electrical shrouds profiles that call for superior flame retardance
NYLON 6	1.2	85	Many grades available Cheapest nylon Good fatigue resistance Some moisture pick-up Low friction and wear properties	Automotive applications, Pump immersion tubes for Barrels, Pneumatic airline tubing for machinery, Rods, Tubing

Condale also supply extrusions in the following materials:- Nylon 66, Nylon 11, Nylon 12, PPO (Noryl and Luryal), TPE, TPV, TPU, EVA and MPR.

Please visit our web-site [www.condale.co.uk](http://www.condale.co.uk) or contact our sales staff for further information.

The above information is to be used as a general guide only and may be subject to change.

MATERIAL TYPE	SPECIFIC GRAVITY	SOFTENING TEMP °C	PROPERTIES	TYPICAL USES
Nylon 66	1.14	110	Very good chemical resistance Very stiff and tough Good for irradiation Engineering grades Low coefficient of friction Low wear	Machined parts and articles Some Profiles Rods
Nylon 11	1.03	125	Very good chemical resistance Very good high and low temperature performance Very good ageing resistance Good dimensional stability Good fatigue resistance Very low coefficient of friction Very low permeability Very low moisture pick-up Degree of clarity	Fuel, oil and gas lines Air brake hosing Catheters Hydraulic hoses Automotive Textiles
Nylon 12	1.01	100	Huge range of grades Low moisture pick-up Low co-efficient of friction Good dimensional stability Good ageing resistance Good oil resistance Low specific gravity Fire resistant grades Good fatigue resistance	Cable sheathing Pneumatic tubing Air brake hosing
PPO (Noryl and Lurynal)	1.1	100	Good high temp performance Good dielectric strength Wide range of grades Limited colours Fire resistant grades Good chemical resistance Low smoke Zero halogen grades	Electrical shrouds Busbar covers Automotive profiles
TPE (SBS & SEBS)	0.9 - 1.2	-	Wide range of grades and hardness Including clear grades Co-extrudes to HIPS, ABS & polypropylene Replaces flexible PVC Medical uses Good recovery Good cold set	Tubing, straps Labels Door seals and gaskets
TPV (EPDM Rubber & Polypropylene)	1.0	125	Good high and low temperature performance Guide range of grades & hardness Co-extrudes to polypropylene Good recovery Good cold set Drinking water grades	Peristaltic pumps Drinking water tubing Seals and gaskets
TPU (Polyurethane)	1.1	-	Polyether & polyester type Co-extrudes to rigid PVC & PETG Mainly harder grades Good recovery Good wear & tear properties Dynamic applications Good clarity Fire resistant grades Good tube bend grades Drinking water grades	Pneumatic tubing Medical tubing Marine and underwater applications
EVA		-	Good recovery Range of hardness Good clarity	Crane and railway pads Gaskets, labels Tubing
MPR (Alcryn)			Melt processable rubber Co-extrudes to UPVC & ABS Good cold set and recovery Available in black and white	Door seals Tubing Co-extrusions



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