



**Intelligent
Solutions for
Extrusion**

High Performance Extrusion Solutions from eurotec®

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eurotec® is an independent compounder of engineering plastics that creates and offers intelligent solutions based on innovative products and tailor made services.

Developing materials from all types of engineering thermoplastics, eurotec®'s high quality technical compounds meet all these requirements;

- ◆ Optimized melt viscosity for easy processing and surface quality
- ◆ Rheological consistency through batch to batch
- ◆ Excellent barrier properties
- ◆ Clear solutions with outstanding transparency
- ◆ Thermal stability & heat aging resistance
- ◆ Outstanding weatherability under extreme conditions
- ◆ Exceptional chemical resistance
- ◆ Abrasion & wear resistance
- ◆ Excellent tear resistance
- ◆ Superior puncture resistance
- ◆ Customized electrical and thermal conductivity
- ◆ Food contact regulations

eurotec®'s extrusion solutions include comprehensive flexibility - ranging from high stiffness to supertough in natural and tailor made colours.

Profile Extrusion

The complex requirements of profile extrusion demand customized solutions. High thermal resistance, outstanding weatherability, superior toughness, exceptional dimensional stability and many more can be provided by eurotec®.

Pipe, Tube & Hose Extrusion

eurotec® has developed numerous grades that add value to their applications with sound dampening, flame retardance, low thermal expansion, elevated pressure resistance together with wide range of flexibility options.



Cast & Blow Film Extrusion

Due to their excellent puncture resistance, exceptional barrier properties, permanent antistatic and excellent mechanical strength, euro**tec**[®] compounds are widely used in cast and blow film extrusion applications.

Fiber Extrusion

Excellent tear resistance and electrical conductivity in wide rheological property range have been provided by euro**tec**[®] fiber extrusion grades.

Sheet Extrusion

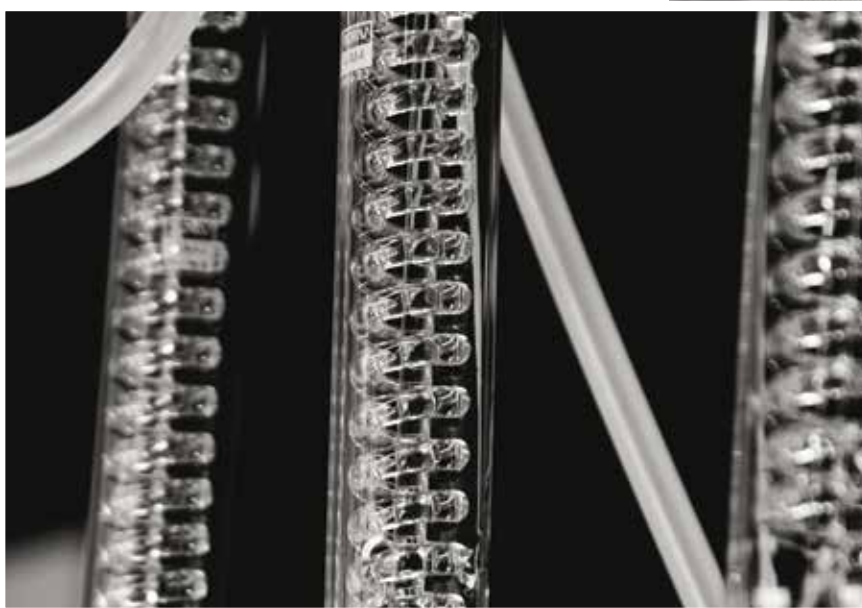
Intelligent solutions from euro**tec**[®] include, static dissipative properties in black or customized colours, combined with exceptional mechanical strength, and fire resistance.

Wire Coating & Jacketing

euro**tec**[®] has developed many solutions for wire coating which can deliver superior mechanical properties and thermal resistance alongside with great flexibility and good abrasion resistance.

Products add value to

- ◆ Automotive and transportation
- ◆ Packaging
- ◆ Electrical / Electronic
- ◆ Construction
- ◆ Home appliances
- ◆ Sport and leisure
- ◆ Safety equipment
- ◆ Garden and power tools
- ◆ Medical industry
- ◆ Furniture





Wire Coating from Tecomid® offers;

Easy processing, good flexibility, excellent opacity, very smooth and high gloss surface

Fuel Hose from Tecomid® offers;

Very low fuel permeation, excellent impact resistance, and great flexibility



Box Profile from Tecomid® offers;

Excellent stiffness, easy processing, and great surface appearance

Multilayer Pipes from Tecolen® offers;

Excellent mechanical strength, very good heat resistance, and low thermal expansion



Cable Raceway from Tecotec® offers;

Excellent self-extinguishing performance, ignition resistance, excellent shock absorption, very good toughness, and easy assembly

Conductive Films from Tecolen® offers;

Very good static dissipative performance, excellent puncture resistance, and no loss in mechanical strength and flexibility



Conductive Fibers from Tecolen® offers;

Extremely high conductivity, easy processing, and very high tear resistance

Bubble Packaging Films from Tecolen® offers;

Immediate and permanent antistatic effect, easy colouring, antistatic performance independent from humidity, and same physical properties of the polymer





Cable Jacketing from Tecomid® offers;

Great flexibility, very good abrasion resistance, good thermal stability, and excellent impact resistance along with outstanding mechanical properties under extreme conditions

Air Break Hose from Tecomid® offers;

Excellent flexibility and high pressure resistance

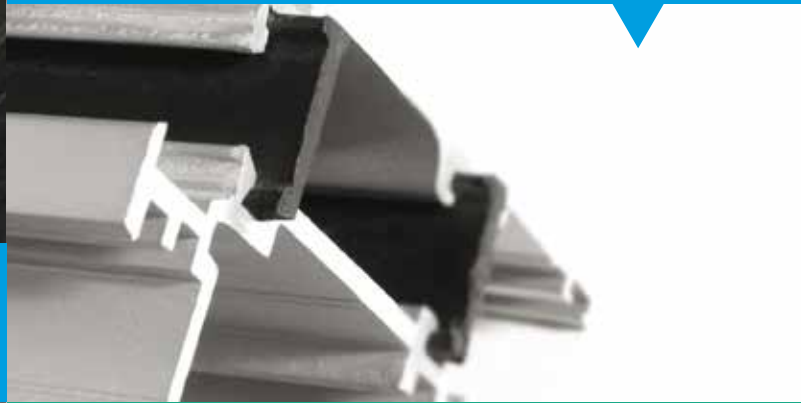


Thermal Brake from Tecomid® offers;

Superior heat aging performance, excellent stiffness, and very good thermal barrier properties

Grass Cutting Line from Tecomid® offers;

Excellent flexibility, high toughness, and resistance to rotational forces



Wire Coating from Tecopet® offers;

Excellent surface and great flexibility

Corrugated Pipe from Tecomid® offers;

High gloss, good flexibility, and self-extinguishing performance



Cable Harness® from Tecomid offers;

Outstanding impact resistance and excellent flexibility

Flame Retardant Pipes from Tecolen® offers;

Excellent self-extinguishing performance, very high impact resistance, and good heat aging resistance



NB60 NL
PA6, unfilled, natural, medium to high viscosity
Pipe and tube extrusion, cable jacketing

NB60 NL RS
PA6, unfilled, improved surface, natural
Wire coating

NB70 NL
PA6, unfilled, natural, high viscosity
Pipe and tube extrusion, cable jacketing

NB90 NL
PA6, unfilled, natural, very high viscosity
Pipe, tube and rod extrusion

PROPERTY	CONDITION	UNIT	STANDARD	NB60 NL	NB60 NL RS	NB70 NL	NB90 NL
GENERAL							
Density	-	g/cm ³	ISO 1183	1.13	1.13	1.13	1.13
Moisture Content	-	%	ISO 960	< 0.2	< 0.2	< 0.2	< 0.2
Moisture Absorption	50% RH, 23°C	%	ISO 62	3.0	3.0	3.0	3.0
MECHANICAL							
Stress at Break	+23°C	MPa	ISO 527	-	-	-	-
Strain at Break	+23°C	%	ISO 527	-	-	-	-
Tensile Modulus	+23°C	MPa	ISO 527	3000	3000	3000	3000
Yield Strength	+23°C	MPa	ISO 527	80	80	80	80
Izod Impact, notched	+23°C	kJ/m ²	ISO 180/1A	7	7	7	8
Izod Impact, notched	-30°C	kJ/m ²	ISO 180/1A	6	6	6	7
Izod Impact, un-notched	+23°C	kJ/m ²	ISO 180/1U	NB	NB	NB	NB
Izod Impact, un-notched	-30 °C	kJ/m ²	ISO 180/1U	NB	NB	NB	NB
THERMAL							
Melting Temperature	10 K/min	°C	ISO 11357	223	223	223	223
Heat Deformation Temperature	0.45 MPa	°C	ISO 75	180	180	180	180
Heat Deformation Temperature	1.80 MPa	°C	ISO 75	65	65	65	65
Vicat Softening Temperature	50N	°C	ISO 306	200	200	200	200
ELECTRICAL & FLAMMABILITY							
Volume Resistivity	-	Ohm.cm	IEC 60093	1E+15	1E+15	1E+15	1E+15
Surface Resistivity	-	Ohm	IEC 60093	1E+13	1E+13	1E+13	1E+13
Comparative Tracking Index	solution A	V	IEC 60112	600	-	600	600
Glow Wire Flammability Index	2 mm plaque	°C	IEC 60695	-	-	-	-
Glow Wire Ignitability Temperature	2 mm plaque	°C	IEC 60695	-	-	-	-
Flame Rating	0.75 mm	-	UL94	-	-	-	-
Flame Rating	1.6 mm	-	UL94	-	-	-	-

* data are based on dry as molded

NB50 BK001 IH PA6, unfilled, impact modified, black Pipe, tube and hose extrusion, cable jacketing	NB50 BK001 IR PA6, unfilled, improved flow & high impact modified, black Pipe, tube and hose extrusion	NB50 NL IT PA6, unfilled, impact modified, supertough, natural Pipe, tube and hose extrusion	NB60 NL IL PA6, unfilled, impact modified, natural Pipe, tube and hose extrusion	NB60 NL IH PA6, unfilled, impact modified, natural Pipe, tube and hose extrusion	NB60 NL PM PA6, unfilled, impact modified, natural Pipe, tube and hose extrusion	NB60 NL IT PA6, unfilled, impact modified, supertough, natural Pipe, tube and hose extrusion	NB60 CR10 BK111 IL PA6, 10% carbon fiber reinforced, impact modified, supertough, black Profile extrusion	NB60 GR20 NL PA6, 20% glass fiber reinforced, natural Profile extrusion
1.04	1,04	1,09	1.08	1.05	1.08	1.09	1,14	1.27
< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2.3	2.3	2.3	2.5	2.3	2.3	2.3	2.3	2.4
-	-	45	60	50	60	45	120	150
-	-	> 200	-	-	-	> 200	4	3.5
1300	1500	250	2500	2000	1000	250	8000	7000
40	-	-	-	-	-	-	-	-
80	85	NB	55	80	80	90	12	11
-	-	20	20	-	-	-	-	10
NB	NB	NB	NB	NB	NB	NB	-	60
NB	NB	NB	NB	NB	NB	NB	-	55
223	223	223	223	223	223	223	223	223
55	-	-	-	-	-	-	-	215
50	50	50	55	55	65	50	175	205
-	-	-	-	-	-	-	-	210
1E+15	1E+15	1E+15	1E+15	1E+15	1E+15	1E+15	<1E+5	1E+15
1E+13	1E+13	1E+13	1E+13	1E+13	1E+13	1E+13	-	1E+13
600	600	600	600	-	-	-	-	500
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
HB	HB	HB	HB	HB	HB	HB	HB	HB
HB	HB	HB	HB	HB	HB	HB	HB	HB

All information in this complete document presents current state of knowledge and experience. The information and data may not be valid when any mentioned material is used in combination with other materials. These data do not guarantee certain values since may vary on processing conditions and end-use conditions. All information and data are provided for reference purposes only and should not be used alone to create specification limits and design basis. It is strongly recommended to test the product under own processing conditions and test facilities to determine the suitability for the required application and use.

						Tecodur®	Tecopet®		Tecotek®
NB60 WH075 FY50 PA6, unfilled, flame retardant - halogen & red phosphorous free, white Pipe, tube and hose extrusion	NB60 BK012 EP50 PA6, unfilled flame retardant - halogen free, heat stabilized, electrically conductive, black Pipe, tube and hose extrusion	NA70 NL PA6.6, unfilled, natural, high viscosity Pipe and tube extrusion, cable jacketing	NA90 NL PA6.6, unfilled, natural, very high viscosity Pipe, tube and rod extrusion	NA50 GR25 BK001 NU01 PA6.6, 25% glass fiber reinforced, heat stabilized, black Profile extrusion	NA70 GR25 BK001 NU01 PA6.6, 25% glass fiber reinforced, heat stabilized, black Profile extrusion	PB30 NL PBT, unfilled, natural, high viscosity Pipe, tube and rod extrusion	PT90 WH120 HS PET, unfilled, heat stabilized, white Wire coating	PT90 WH117 MB PET, unfilled, impact modified, heat stabilized, white Wire coating	PC54 BK002 SL PC, unfilled, black Sheet and profile extrusion
1.16	1.20	1.14	1.14	1.30	1.30	1.31	1.55	1.48	1.19
< 0.2	< 0.2	-	-	< 0.2	< 0.2	< 0.08	< 0.1	< 0.1	< 0.1
2.7	1.8	2.7	2.7	1.9	1.9	0.2	-	-	0.2
70	50	-	-	140	145	-	60	50	-
-	-	-	-	4	4	-	-	-	> 20
2000	2500	3500	3000	7500	8000	2500	3250	2500	2250
-	-	85	80	-	-	55	-	-	65
7	7	6	7	13	14	8	5	12	50
6	6	5	6	11	12	7	-	-	20
-	-	NB	NB	-	-	NB	-	-	NB
-	-	NB	NB	-	-	NB	-	-	NB
223	223	262	262	262	262	225	255	255	-
-	-	210	-	-	-	-	-	-	125
60	60	80	80	245	245	60	70	70	115
-	-	-	-	-	-	-	-	-	140
1E+15	-	1E+15	1E+15	1E+15	1E+15	1E+16	1E+15	1E+15	1E+15
1E+13	<1E+3	1E+13	1E+13	1E+13	1E+13	1E+14	1E+14	1E+14	1E+15
600	-	600	600	500	500	-	-	-	225
-	960	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	825
-	V0	-	-	HB	HB	HB	HB	HB	HB
V2	-	-	-	HB	HB	HB	HB	HB	HB

	Tecolen®							Tecoform®
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BC10 UF85 WH060 PU81 PC/ABS, unfilled, flame retardant - Br, Cl free, heat & UV stabilized, white Profile extrusion	CP00 GR20 NL PPCP, 20% glass fiber reinforced, natural Pipe and profile extrusion	CP00 GR30 BK001 UT PPCP, 30% glass fiber reinforced, UV stabilized, black Pipe and profile extrusion	CP00 GR40 NL PPCP, 40% glass fiber reinforced, natural Pipe and profile extrusion	CP10 NL XA80 PPCP, flame retardant -halogen free, heat stabilized, natural Pipe extrusion	CP10 NL XA80 FM PPCP, flame retardant - halogen free masterbatch, natural Pipe extrusion	OE00 BK EC PE, conductive, black Film and fiber extrusion	OE10 NL EC 0B PE, conductive Film and fiber extrusion	P000 BK EC OE POM, unfilled, electrically conductive black Pipe, tube and rod extrusion
1.20	1.03	1.11	1.20	1.05	1.19	1.14	0.98	1.42
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
60	60	65	75	20	-	15	10	50
> 50	10	5	5	-	-	> 100	-	-
2750	3000	5000	6250	1750	4500	500	-	2250
-	-	-	-	-	-	-	-	-
35	25	25	20	10	5	25	25	7
12	15	15	-	4	4	-	8	6
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	165	165	165	165	165	115	115	165
-	-	-	-	-	-	-	-	-
90	100	120	120	60	55	40	35	75
-	-	-	-	-	-	-	-	-
1E+13	1E+15	1E+15	1E+15	1E+15	1E+15	< 1E+1	-	< 1E+1
1E+15	1E+15	1E+15	1E+15	1E+15	1E+15	< 1E+1	< 1E+9	-
-	-	-	-	-	-	-	-	-
960	-	-	-	960	960	-	-	-
-	-	-	-	-	-	-	-	-
-	HB	HB	HB	V2	V0	HB	HB	HB
V0	HB	HB	HB	V0	V0	HB	HB	HB



Tecomid® PA6, PA6.6, PA6.6/6, and PA blends

Tecomid® HT PPA

Tecodur® PBT, and PBT blends

Tecopet® PET

Tecotek® PC, and PC blends

Tecotek® PPO, and PPO blends

Tecolen® PP, and PE speciality

Tecoform® POM





Established in 2004 and based in European Free Zone/Corlu, eurotec® is a leading manufacturer of engineering plastics for various sectors, primarily automotive and transportation, electrical/electronic, home appliances, sports and leisure, safety equipment, garden and power tools, medical industry, construction & agricultural equipment, furniture industries.

Making a difference via its unique structure and approach to business, eurotec® sells more than half of its products in international markets and has managed to be the leader in the market with the help of its high quality products, sustained quality, multi-alternative solutions and understanding of aesthetics.

eurotec® supports its advanced technology with its dynamic and experienced human resources. Aiming to manufacture the best in the most efficient way and with the most possible competitive attitude, eurotec® supports its objective by continuous development efforts that involve offering a wide range of high quality products.

Adopting team work as a business philosophy, eurotec® views its customers as a part of this team. As customer needs and requests are forwarded accurately and completely to the R&D Department as a result of mutual information exchange, a product and application development process customized according to the customer needs are planned and implemented. Thanks to this process, we ensure that special products in desired colours and quality meet the requirements of the customer from each and every aspect and that they are designed in the shortest time possible with minimum amount of trials.

Tests are conducted in latest technology R&D and Quality laboratories, in compliance with ISO and other generally accepted international standards by using automatic and semi-automatic equipment to obtain reliable and reproducible results. eurotec® offers the following comprehensive services to its customers and business partners;

- ◆ Development of customized products, applications and colours at pilot facilities
- ◆ Material identification
- ◆ Flame and fire resistance tests
- ◆ Accelerated ageing tests against environmental and extraordinary conditions/ influences
- ◆ Colour and gloss measurements
- ◆ Mechanical and physical tests
- ◆ Electrical and thermal tests
- ◆ Instrumental analysis
- ◆ Rheology and process ability applications
- ◆ Customer process simulations and
- ◆ Other tests specific to the customer



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