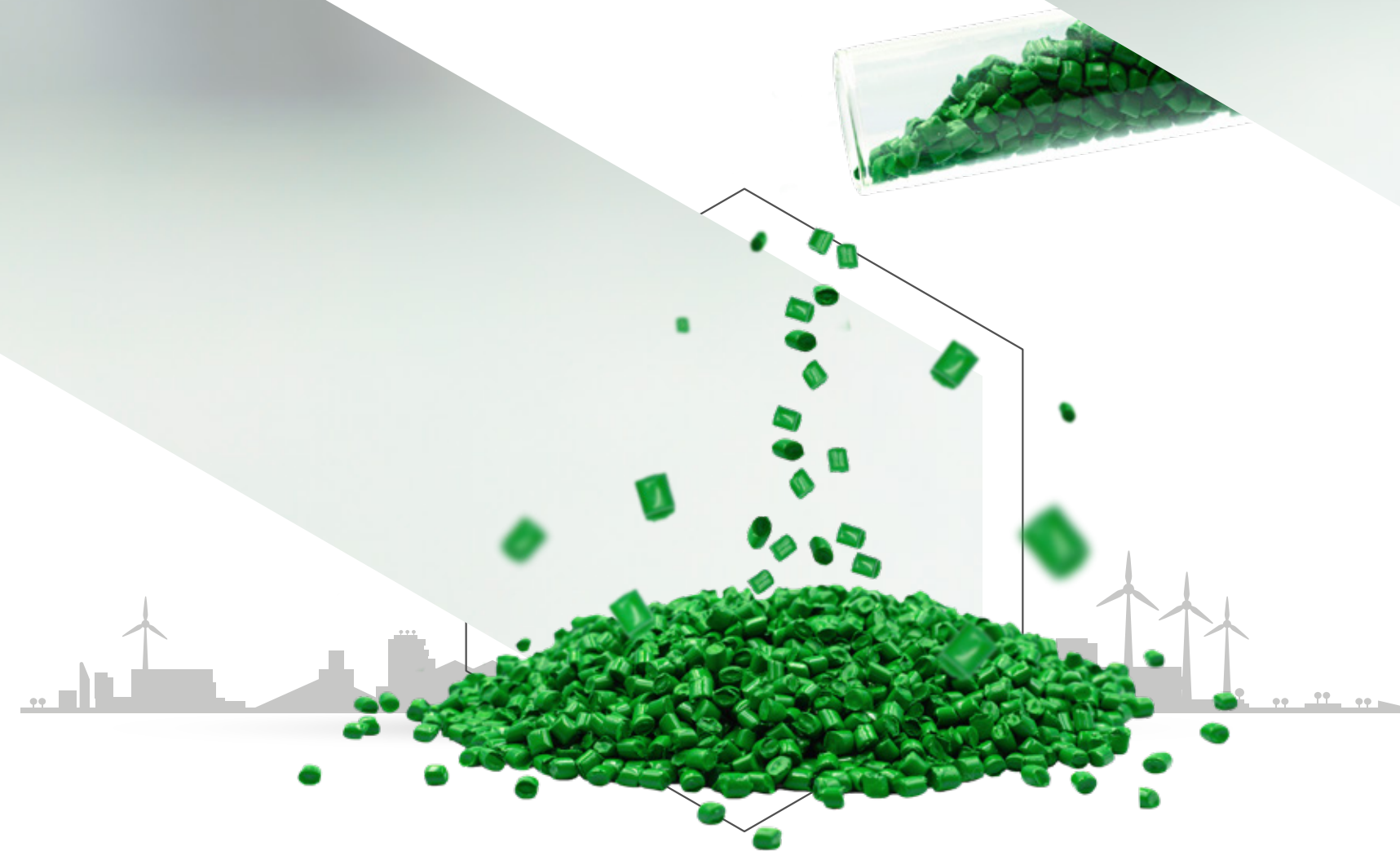




Catalog

plastics





Polimarky is an experienced Polish manufacturer of compounds that has been setting standards in the field of plastics modification for over 40 years. The company provides advanced solutions for many industries, supporting extrusion and injection molding processes.

At the same time, Polimarky develops and manufactures modern installation systems for drinking water, heating systems, and underfloor heating, responding to the growing demands of the market.

The company's strength lies in innovation-confirmed by patents, thousands of proprietary formulations, and continuous process improvement. All of this is built on values that define its operations: trust, quality, responsibility, respect, and development.

Industries



RESLEN

Based on polypropylene
and polyethylene

RESLEN REF

Halogen-free flame-retardant
compounds for cables

RESTRAMID B & A

Based on Polyamide 6 (B)
and Polyamide 6.6 (A)

RESTREN

Based on acrylonitrile
-butadiene-styrene (ABS)

RESCARB

Based on polycarbonate

RESFORM

Based on polyoxymethylene (POM)

RESTON

Based on polyketone

RESBLEND

Blends of various base
polymers (PC, ABS, PP, PA)

RESARON

Based on polyphthalamide (PPA)

Modifications

We offer a wide range of modified plastics, individually designed to meet customer needs and the requirements of a dynamically changing market. All production processes are carried out in accordance with international quality and environmental management standards, confirmed by certifications: ISO 9001, ISO 14001, IATF 16949, and RecyClass.

Our modification capabilities include, among others:

- **Material reinforcement**
 - glass fiber (GF)
 - glass beads (GB)
- **Impact modification** – increasing resistance to impact and dynamic loads
- **Stabilization of properties in key operating conditions**
 - resistance to elevated temperatures
 - UV resistance
 - resistance to water and moisture
- **Flame-retardant systems**
 - halogen-based solutions
 - halogen-free (HF) solutions
- **Mineral fillers** – optimization of mechanical properties and costs
- **Modification of tribological properties**
 - slip and tribological additives (PTFE, MoS₂)
- **Coloring**
 - color consistency across batches, matching customer samples, compliance with RAL, PANTONE, and NCS systems
- **Advanced multi-component modifications**
 - combining additives to achieve property synergy, e.g.:
GF + GB, GF + FR, GF + HI, GF + MoS₂

We create material solutions that combine engineering precision with design flexibility, ensuring optimal adaptation to specific industrial applications.



VALUES & ENVIRONMENTAL COMMITMENT

Polimarky’s operations are based on fundamental values: respect, trust, development, responsibility, and quality. In practice, this translates into consistent care for relationships with customers and colleagues, as well as a conscious approach to responsibility toward the local community and the environment. We treat environmental protection as an integral part of the company’s strategy and an important area of continuous process optimization. The actions we take allow us to effectively reduce the impact of production on the environment while maintaining the highest product quality standards.

At our facilities, we implement environmentally friendly solutions such as:

- closed-loop water systems in production processes,
- heat recovery systems from machines and equipment,
- partial coverage of electricity demand through photovoltaic installations.

Resgreen - recycle-based compounds

	MFR [g/10 min]	Density [g/cm³]	Tensile Modulus [MPa]	Tensile modulus yield [MPa]	Strain at break [%]	Charpy notched impact strength [kJ/m²]
Nazwa	ISO 1133	ISO 1183	ISO 527	ISO 527	ISO 527	ISO 179
RESLEN PPH10R T20 BK 1A0000	14	1,05	2000	20	>25	3
RESLEN PPH35R BK 2A0000	35	0,98	1400	22	>10	2,5
RESLEN PP2R M18 BK 3B0000	2	1,01	1600	24	>4	4
RESLEN PPC1R T10 BK 1B00000EX	1	0,98	1500	22	>10	6
RESLEN PPH3R GF30 BK 1A0000	3	1,15	5800	65	3	9
RESLEN PPH12R K30 BK 1A0000	11	1,13	2200	21	>30	4
RESTRAMID B27R GF15 BK 1I0000EX	-	1,22	5500	80	4	5 5
RESTRAMID B27R GF30 BK 1I0000EX	-	1,35	8000	115	2	7 7
RESTRAMID B27R GF30 BK 2I0000EX	-	1,36	8200	128	2	7,5 7,5
RESTRAMID B27R GF50 BK 1I0000EX	-	1,56	13000	140	1	10 10
RESTREN ABS30R BK 1A0000	30	1,04	2100	35	>10	8 8

Glossary: GF — glass fiber | T — talc | K — chalk and % fillers



Respect



Trust



Progress



Quality



Responsibility

Modified Compounds

Name	MECHANICAL					THERMAL	
	Density [g/cm³]	Tensile Modulus [MPa]	Stress at break [MPa]	Strain at break [%]	Charpy notched impact strength [kJ/m²]	Deflection temperature under load HDT 1,8 MPa [°C]	Vicat softening temperature VST A120 [°C]
	ISO 1183	ISO 527	ISO 527	ISO 527	ISO 179	ISO 75	ISO 306
RESLEN PPH GF15	1	3700	60	2,5 - 5,0	7	120	138
RESLEN PPH GF30	1,12	6 200	90	2,0 - 4,0	8	140	158
RESLEN PPH GF50	1,32	9 500	110	1,2 - 4,0	10	145	160
RESLEN PPH T8	0,96	1 600	30	40 - 150	2,5	50	145
RESLEN PPH K10	0,99	1 500	29	30 - 150	3	50	149
RESLEN PPH T15	1,01	1 650	28	30 - 90	3	52	152
RESLEN PPH T30	1,14	2 800	26	15 - 100	3	65	157
RESLEN PPH T40	1,24	2 600	30	15 - 80	3	75	158
RESLEN PPH K40	1,24	2 300	21	15 - 70	25	75	158
RESLEN PPX GF30	1,12	8 500	98	1,0 - 3,0	11	150	150
RESLEN PPX GF40	1,22	9 000	110	1,0 - 3,0	12	155	160

Glossary: GF — glass fiber, T — talc, K — chalk and % fillers.



Engineering Compounds

Name	MECHANICAL					THERMAL	
	Density [g/cm³]	Tensile Modulus [MPa]	Stress at break [MPa]	Strain at break [%]	Charpy notched impactstrength [kJ/m²]	Deflection temperature under load HDT 1,8 MPa [°C]	Vicat softening temperature VST B120 [°C]
	ISO 1183	ISO 527, Dry	ISO 527, Dry	ISO 527, Dry	ISO 179, Dry	ISO 75	ISO 306

RESTRAMID PA6/PA6.6

RESTRAMID B27 GF15	1,23	5800	120	2	7	205	205
RESTRAMID B27 GF30	1,36	9600	185	1,5	13	215	210
RESTRAMID B27 GF50	1,56	17 000	230	1	20	220	215
RESTRAMID A27 GF15	1,24	6 400	140	2	7	245	218
RESTRAMID A27 GF30	1,36	10 000	200	1,5	12	182	213
RESTRAMID A27 GF50	1,57	16 500	250	1	19	260	215
RESARON HA GF30	1,37	9 000	205	3	13	230	245
RESARON HA GF40	1,47	14 000	235	2,5	15	235	245
RESARON HA GF50	1,57	19 000	250	2	16	240	250

RESTREN ABS

RESTREN ABS	1,04	2 300	40	3	20	95	102
RESTREN ABS V0	1,17	2100	36	2-15	18	74	80
RESCARB PC	1,21	2 400	60	60- 70	20	123	145
RESAN SAN	1,05	3 200	65	2-3	5	73	91
RESFORM POM	1,44	2 600	60	20-50	5	110	-

RESBLEND

RESBLEND 1 ABS+PC	1,07-1,18	2 000 -2 500	45-55	5-15	15- 20	-	-
RESBLEND 2 PA+ABS	1,09 - 1,11	2 100 - 2 300	42-56	10-20	7-10	-	-
RESBLEND 4 PP+PA	0,96-1,05	2 500 - 3 300	39-42	40-55	3-6	-	-

Legend: A27 - PA6.6 | B27 - PA6 | GF - glass fiber

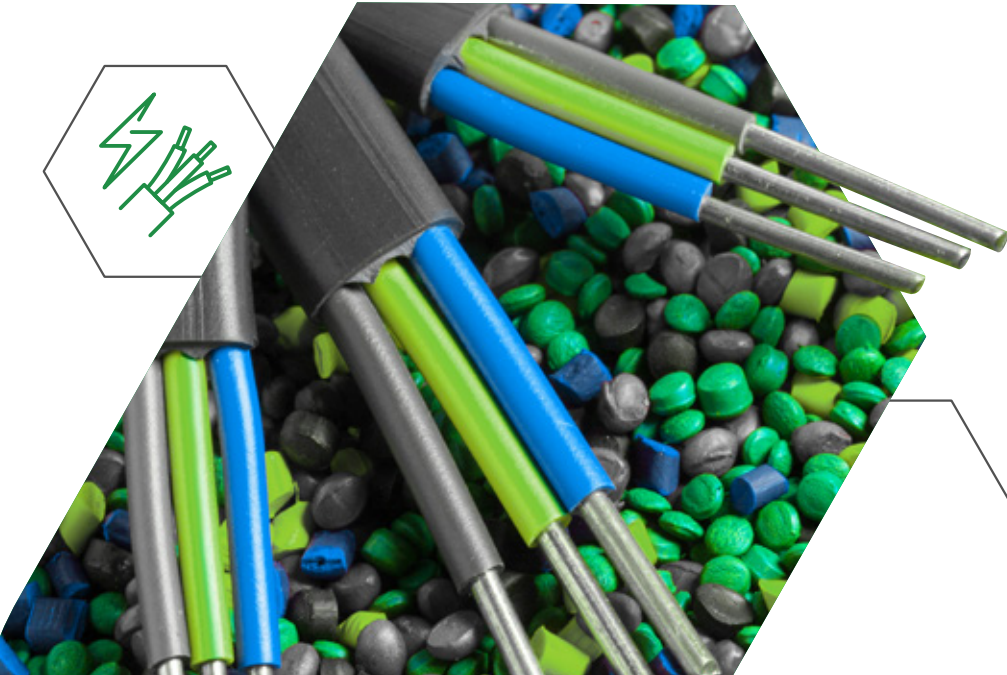
RESLEN REF: HALOGEN-FREE CABLE COMPOUNDS

RESLEN REF compounds are modern, self-extinguishing halogen-free plastics with low smoke emission, no toxic combustion products, and no flaming droplets—key for safer evacuation.

Key features:

- CPR classes from D to B, with low smoke density
- Ozone resistance and performance down to -40°C
- Processable on HFFR and PVC lines
- One formulation usable for both jacket and insulation
- Anti-die drool additive ensures a clean process
- Applications: energy, telecom, fibre optics

Polimarky offers **over 50 proprietary formulations** for cables up to 1 kV, compliant with VDE, BS, PN-EN, and IEC standards. We also develop new grades: flexible, extreme-condition-resistant, ceramic-forming, and flame-retardant filler compounds.



Cable compounds

Name	Density 23°C [g/cm³]	Tensile Strength [MPa]	Elongation at break [%]	Shore D hardness ShD 23°C	Oxygen index [%]
	ISO 1183	EN 60811 - 501	EN 60811-501	ISO 868	ISO 868
RESLEN REF 605	1,53	10,5	180	49	37
RESLEN REF 606	1,55	11	190	52	38
RESLEN REF 607	1,54	11	160	51	40
RESLEN REF 608	1,54	11,5	180	48	42
RESLEN REF 700	1,52	11	200	50	36
RESLEN REF 704	1,54	10	190	49	42
RESLEN REF 707	1,54	10	170	50	37
RESLEN REF FLEX* *	1,4	11-12	190 - 250	40 - 50	33 - 38
RESLEN REF/EX*	≥ 1,35	≥ 10	≥ 150	≥ 43	≥ 26

* material for bedding
** different grades

Flame-retardant halogen-free compounds

Name	MECHANICAL						THERMAL	FLAMMABILITY	
	MFR [g/10 min]	Density [g/cm³]	Tensile Modulus [MPa]	Stress at break [MPa]	Strain at break [%]	Charpy notched impact [kJ/m²]	Deflection temperature under load HDT 1,8 MPa [°C]	Flammability class UL-94	Glow Wire Flammability Index
	ISO 1133	ISO 1183	ISO 527	ISO 527	ISO 527	ISO 179	ISO 75	EN 60695-11-20	GWFI IEC 60695-2-12
RESLEN PE5 VOHF NT 1A0000	5 [190°C/5kg]	1,06	500	10	>50	-	-	V0 /3,2 mm	960°C/2mm
RESLEN PPH10 VOHF WH 1A0000	10 [230°C/2,16kg]	1,03	2300	23	>50	2,5	-	V0 /1,6 mm	960°C/2mm
RESLEN PPC0.3 VOHF 9003 2A0000EX	1,8 [230°C/2,16kg]	1,01	2000	16	>50	-	-	V0 /0,8 mm	960°C/2mm
RESLEN PPC0.3 VOHF NT 1A0000EX	1,8 [230°C/2,16kg]	1,00	2200	25	>50	-	-	V0 /1,6 mm	960°C/2mm
RESLEN PPC1 VOHF NT 2A0000	1,0 [230°C/2,16kg]	1,06	2200	15	>50	6	55	V0 /1,6 mm	960°C/1-2mm
RESLEN PPC12 VOHF NT 1A0000	12 [230°C/2,16kg]	1,06	2200	20	>50	3,5	58	V0 /1,6 mm	960°C/1mm
RESLEN PPC12 VOHF NT 1B1100	12 [230°C/2,16kg]	1,06	1850	20	>50	3,5	58	V0 /1,6 mm	960°C/1mm
RESLEN PPC12 VOHF BK 1B1100_012177	12 [230°C/2,16kg]	1,09	3100	20	>20	2,5	58	5VA/2,5mm	960°C/1mm
RESLEN PPH13 T20 VOHF NT 1A0000EX	12 [230°C/2,16kg]	1,23	2600	23	>10	2,5	-	V0 /3,2 mm	750°C/2mm
RESLEN PPH4 GF30 VOHF NT 1A0000EX	3 [230°C/2,16kg]	1,37	7000	92	>2	11	148	V0 /1,6 mm	960°C/1mm
RESTRAMID B27 VOHF BK 1A0000	-	1,17	4200	70	>5	3,5	80	V0 /1,6 mm	960°C/1mm
RESTRAMID B27 GF30 VOHF BK 1B0100EX	-	1,42	9600	95	>1	9	200	V0 /1,6 mm	960°C/1mm
RESTRAMID A27 GF25 VOHF NT 1A0000EX	-	1,38	8500	145	>1	9	235	V0 /1,6 mm	960°C/1mm
RESCARB PC10 GF5 UVFL 7035 1A0000EX	10 [300°C/1,2kg]	1,24	3100	62	>2	6	125	V0 /1,6 mm	960°C/1mm

Legend: Reslen - PP | Restramid A - PA6 | Restramid B - PA6.6 | Rescarb - PC

