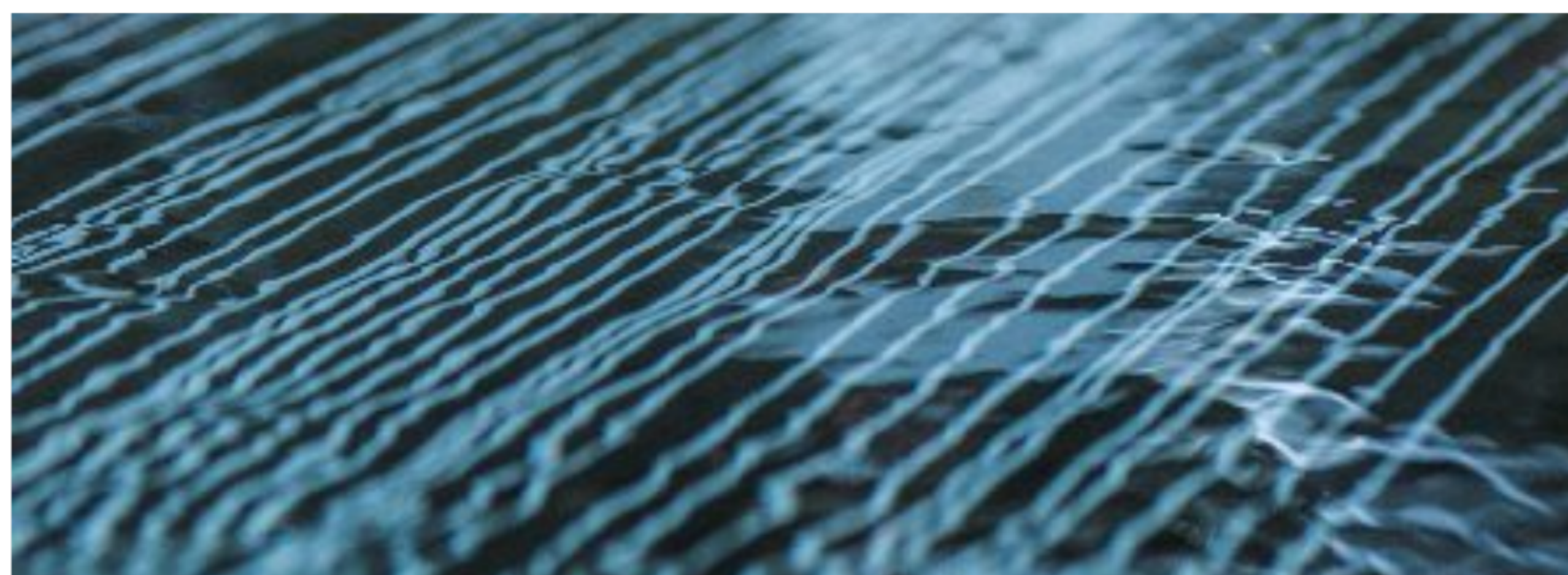


smart compounding®



Technical data sheet





PoliMarky®

since 1984

FLAME - RETARDANT, HALOGEN - FREE COMPOUNDS

Name of product	MFR [g/10 min] ISO 11300	Density [g/cm ³] ISO 1183	MECHANICAL			Charpy notched impact strength [kJ/m ²] ISO 179	THERMAL		FLAMMABILITY	
			Tensile Modulus [MPa] ISO 527	Stress at break [MPa] ISO 527	Strain at break [%] ISO 527		Deflection temperature under load HDT 1,8 MPa [°C] ISO 75	Flammability classification UL-94/ 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	750°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	

MODIFIED COMPOUNDS

Name of product	MFR [g/10 min] ISO 1133	Density [g/cm ³] ISO 1183	Tensile Modulus [MPa] ISO 527	MECHANICAL			THERMAL	
				Stress at break [MPa] ISO 527	Strain at break [%] ISO 527	Charpy notched impact strength [kJ/m ²] ISO 179	Deflection temperature under load HDT 1,8 MPa [°C] ISO 75	Vicat softening temperature VST A120 [°C] ISO 306
RESLEN PPH GF 15	-	1,00	3 700	60	2,5 - 5,0	7	120	138
RESLEN PPH GF 30	-	1,12	6 200	90	2,0 - 4,0	8	140	158
RESLEN PPH GF 50	-	1,32	9 500	110	1,2 - 4,0	10	145	160
RESLEN PPH T 8	3-20 (230°C/2,16kg)	0,96	1 600	30	40 - 150	2,5	50	145
RESLEN PPH K 10	3-20 (230°C/2,16kg)	0,99	1 500	29	30 - 150	3	50	149
RESLEN PPH T 15	3-20 (230°C/2,16kg)	1,01	1 650	28	30 - 90	3	52	152
RESLEN PPH T 30	3-20 (230°C/2,16kg)	1,14	2 800	26	15 - 100	3	65	157
RESLEN PPH T 40	3-20 (230°C/2,16kg)	1,24	2 600	30	15 - 80	3	75	158
RESLEN PPH K 40	3-20 (230°C/2,16kg)	1,24	2 300	21	15 - 70	25	75	158
RESLEN PPX GF 30	-	1,12	8 500	98	1,0 - 3,0	11	150	150
RESLEN PPX GF 40	-	1,22	9 000	110	1,0 - 3,0	12	155	160

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

CABLE COMPOUNDS

Name of product	MFR 190°C/21,6 kg [g/10 min] ISO 1133	MFR 150°C / 21,6 kg [g/10 min] ISO 1133	Density 23°C / 21,6 kg [g/cm ³] ISO 1133	Tensile Strength [MPa]** EN 60811 - 501	Elongation at break [%]** EN 60811-501	Shore D hardness ShD 23°C ISO 868	Oxygen index [%] ISO 4589
RESLEN REF 605	12	1,53	3	10,5	180	49	37
RESLEN REF 606	11	1,55	2,5	11	190	52	38
RESLEN REF 607	15	1,54	4	11	160	51	40
RESLEN REF 608	13	1,54	4,5	11,5	180	48	42
RESLEN REF 700	9	1,52	2	11	200	50	36
RESLEN REF 704	14	1,54	3	10	190	49	42
RESLEN REF 707	7	1,54	5	10	170	50	37
RESLEN REF FLEX***	8 - 25	1,40	-	11 - 12	190 - 250	40 - 50	33 - 38
RESLEN REF /EX*	20 - 35	≥ 1,35	-	≥ 10	≥ 150	≥ 43	≥ 26

* material for bedding

** samples taken out of extruded cable sheathing

*** different grades

All information regarding the physical properties of our products has been provided to the best of our knowledge.

ENGINEERING COMPOUNDS

MECHANICAL

THERMAL

Name of product	MFR [g/10 min] ISO 1133	Density [g/cm ³] ISO 1183	Tensile Modulus [MPa] ISO 527, Dry	Stress at break [MPa] ISO 527, Dry	Strain at break [%] ISO 527, Dry	Charpy notched impact strength [kJ/m ²] ISO 179	Deflection temperature under load HDT 1,8 MPa [°C] ISO 75	Vicat softening temperature VST B120 [°C] ISO 306
RESTRAMID PA6/PA6.6								
RESTRAMID B27 GF 15	-	1,23	5 800	120	2,0	7-11	205	205
RESTRAMID B27 GF 30	-	1,36	9 600	185	1,5	13-18	215	210
RESTRAMID B27 GF 50	-	1,56	17 000	230	1,0	20-26	220	218
RESTRAMID A27 GF 15	-	1,24	6 400	140	2,0	7-8	245	215
RESTRAMID A27 GF 30	-	1,36	10 000	200	1,5	12-16	250	213
RESTRAMID A27 GF 50	-	1,57	16 500	250	1,0	19-21	260	215
RESARON HA GF 30	-	1,37	9 000	205	3,0	13-15*	230	245
RESARON HA GF 40	-	1,47	14 000	235	2,5	15-18*	235	245
RESARON HA GF 50	-	1,57	19 000	250	2,0	16-19*	240	250
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	3,5-5,5	-	-
*warunkowo								
POZOSTAŁE								
RESTREN ABS	25 - 45 (220°C/10kg)	1,04	2 300	40	3,3	20	95	102-104
RESTREN ABS V0	35 - 55 (220°C/10kg)	1,17	2 100	36	2,0 - 15	18	74	80
RESCARB SPC	15 - 22 (300°C/1,2kg)	1,21	2 400	60	60 - 70	20	123	145
RESAN SAN	6 - 13 (220°C/10kg)	1,05	3 200	65	2,0 - 3,0	5	73	91
RESFORM POM	6 - 13 (190°C/2,16kg)	1,44	2 600	60	20 - 50	5	110	-

Legend: A27 - PA6.6; B27 - PA6; GF - glass fiber, V0 – flame retardancy acc. to UL-94



Name of product	MFR [g/10 min] ISO 1133	Density [g/cm ³] ISO 1183	Tensile Modulus [MPa] ISO 527	Tensile Modulus Yield [MPa] ISO 527	Strain at break [%] ISO 527	Charpy notched impact strength [kJ/m ²] ISO 179
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RESLEN „GREEN“ - based on recycled PP

RESLEN PPH10R T20 BK 1A0000	14	1,05	2000	20	>25	3,0
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

Name of product	MFR [g/10 min] ISO 1133	Density [g/cm ³] ISO 1183	Tensile Modulus [MPa] ISO 527, Dry	Tensile Modulus Yield [MPa] ISO 527, Dry	Strain at break [%] ISO 527, Dry	UCharpy notched impact strength [kJ/m ²] ISO 179, Dry
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RESTRAMID „GREEN“ - based on recycled PA6

RESTRAMID B27R GF15 BK 1I0000EX	-	1,22	5500	80	4	5
RESTRAMID B27R GF30 BK 1I0000EX	-	1,35	8000	115	2	7
RESTRAMID B27R GF30 BK 2I0000EX	-	1,36	8200	128	2	7,5
RESTRAMID B27R GF50 BK 1I0000EX	-	1,56	13000	140	1	10

ABS „GREEN“ - based on recycled ABS

RESTREN ABS30R BK 1A0000	30	1,04	2100	35	>10	8
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