

The Right Solutions

Product Selector Guide



AOC
Trusted Solutions

The Right Solutions

Our world is changing rapidly. Every day we face new challenges, and we are finding new opportunities. We must rethink, reshape and reinvent. We must find new solutions. Not just any solution, but we must find the right one. And, that's exactly what we do.

Trust AOC to create and deliver the solutions to help your business grow. We will partner with you to expand your business and your industry. With open collaboration we will make innovation truly happen.

Strength and durability

The combination of fiber and resin into one composite system takes advantage of the positive contributions of the individual constituents. The fibers bring elevated mechanical strength and stiffness. The resins bring resistance to elevated temperatures, durability and protection against aggressive environments (including water and chemicals). This translates into structural integrity, a continued operation capability, and minimized maintenance during part life.



Design flexibility

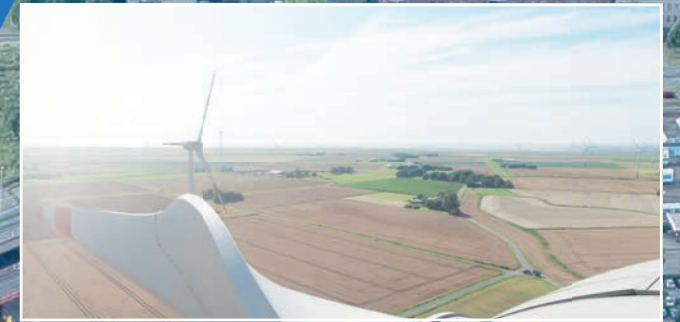
Composite materials can be easily formed. They bring designers, engineers, and architects the unique capability to personalize part shape and aesthetics, while having the benefit of tailoring part functionality to the application. Compared to traditional materials like steel and concrete, using composites solutions enables in many cases the integration of multiple components and functions.

Environmentally sound

Associated with the low weight and long life durability of composite components and their limited requirement for maintenance, the lifetime cost and ecological footprint are highly beneficial. Resin formulation fine-tuning and formulation improvement can further improve the environmental profile of composites.

Light weight capability

Unlike steel and concrete, composites feature high strength, stiffness and inherent low weight at the same time. This allows to design lighter and thinner, translating for instance into lower fuel emissions for cars, and faster installation for building and infrastructure components.



AOC. Trusted Solutions

AOC Expertise



A world of experience

AOC's foundation began more than 60 years ago. Through the decades, AOC has been focused on creating innovation, producing quality, and developing the type of partnerships that have helped our customers grow their businesses and expand their markets. With facilities and global experts around the world, AOC is ready to work with you to find the solutions you can trust.

Previously serving the market under the names Aliancys, AOC Aliancys, and DSM Composite Resins, AOC has transformed the industry and has earned the position of the leading global supplier.

Delivering Innovation

AOC experts will help you push the limits of part performance and component manufacturing. Together we will work together to literally shape our world with products that are lighter, stronger, versatile and more competitive.

AOC takes an integral approach to new product development, using our full expertise in polymer science, manufacturing, testing and component manufacturing. Industry specialists at AOC's R&D centers around the world support customers with state-of-the-art equipment, including resin synthesis, mechanical property testing capabilities and analytical testing laboratories.

Our scientists are continuously working on new solutions to help you be more competitive today. And, they are creating the innovation to drive your success in the future.

Quality

You need consistent and reliable materials that you can trust, day after day. Your customers are counting on you. AOC produces the highest quality and most consistent products in the industry. Manufacturing expertise, proprietary equipment and automated process operation systems provide you with the consistency you can trust. AOC delivers the products you need and brings peace of mind so you can focus on your business and your customers.

Your trusted partners

The AOC team is dedicated to finding the right solutions to help drive your success. We understand your business and will work together to determine how AOC products and service can help optimize your part performance and meet your customers' requirements.

AOC experienced professionals are experts in both product performance and manufacturing processes. From our polymer scientists, manufacturing, technical service and sales experts, the AOC team will be a true partner for your business.



NEXT™-label

To help our customers create composite parts with less environmental impact, we have introduced the NEXT™ Eco-label. With this label we make it easy to select sustainable products from the AOC portfolio, like our styrene-free and low styrene resins, bio-based resins and PET-based resins.








How to use this guide?




In the following pages you can find the most important resins from AOC sold for specific composites applications and transformation processes. Per resin some key physical properties are listed to help you in making a choice between product options.





Additional information (incl. specific curing conditions for sample preparation) is available through product-specific Product Datasheets and Regulatory Datasheets. Please consult your AOC Technical Service



representative to select the best resin system for your specific requirements. For our newest product innovations and application updates, also check out aocresins.com





Name	Chemical nature	Description	HDT (°C) ISO 75-A	Elongation at break (%) ISO 527-2	Tensile strength (MPa) ISO 527-2	Tensile Modulus (GPa) ISO 527-2	Viscosity 100 s ⁻¹ (mPa.s) TM 2013	Gel time (min) TM 2625	Time to Peak (min) TM 2625	Peak Temperature (°C) TM 2625
Chemical Resistance, Tanks & Pipes										
Atlac® F013A	VE Bisphenol A	Multi-purpose, chemical resistance, DIBt approval	111	6.6	88	3.2	350 (20 s ⁻¹)	23	18	182
Atlac® 382 Flakes	MF Resin	Flakes, dissolving in styrene required. Chemical resistance, heat resistance, multi-purpose	-	-	-	-	-	-	-	-
Atlac® 430	VE Bisphenol A	Multi-purpose, chemical resistance (alkali), Lloyds approval	105	6.1	95	3.6	470	13	22	150
Atlac® 580	VE Urethane	Multi-purpose, chemical resistance, easy processing, Lloyds approval	115	4.2	83	3.5	450	38	54	123
Atlac® 580 ACT	VE Urethane	Thixotropic and preaccelerated, low shrinkage	115	4.2	83	3.5	550 (20 s ⁻¹)	28.5	47.5	140
Atlac® 590Z	VE Novolac	High temperature applications, chemical resistance (solvents, strong acids)	155	3.7	89	3.6	500	19	23	160
Atlac® F086A	VE Novolac	Multi-purpose, chemical resistance, DIBt approval	180	2.8	83	3.8	410	30	34	170
Atlac® Premium 600 	VE Bisphenol A	Lining of tanks, styrene-free, enhanced resistance against organic chemicals	103	2.5	66	3.3	1,400 (20 s ⁻¹)	17	27	143
Atlac® E-Nova FW 2045	VE Urethane	High temperature applications, chemical resistance (solvents), easy processing	145	3.5	90	3.5	400	19	27	165
Atlac® E-Nova FW 2245	VE Urethane	Filament winding, easy processing, increased flexibility, chemical resistance	145	3.5	90	3.5	425	32	65	140
Atlac® 5200 FC	VE Bisphenol A	Chemical resistance, food contact applications, GMP	105	6.1	95	3.6	470	15	25	150
Atlac® F010X	VE Bisphenol A	Multi-purpose, chemical resistance, DIBt approval	120	6.2	88	3.2	350 (60 s ⁻¹)	15	6	176
Palatal® P 61-01	Orthophthalic	Multi-purpose, high HDT	90	2.8	85	4.4	800	18	22	175

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Palatal® P 61-02	Orthophthalic	Multi-purpose, filament winding	90	2.8	85	4.4	350	22	40	150
F421-BBB-00 	PET	Multi-purpose, filament winding	97	3.5	87	4.1	335	16.5	30	163
Palatal® P 61 V-12 V	Orthophthalic	Multi-purpose, filament winding	90	2.8	85	4.4	800	10	15	170
Palatal® P 69-02	Orthophthalic	Multi-purpose, filament winding, increased flexibility	90	3.4	75	3.8	165	14	25	165
Palatal® P 80-02	Orthophthalic	Multi-purpose, high reactivity, high HDT, easy processing	108	4.2	80	3.7	330	16	22.5	180
Palatal® A 400-01 FC	Isophthalic	Multi-purpose, Lloyds approval	93	4.6	90	3.7	1,000	9	19	160
Synolite™ 0268-N-4	Isophthalic/NPG	Multi-purpose, enhanced chemical resistance, filament winding	95	9.5	5.3	2.7	520	17.5	29	125
Synolite™ 1717-N-1	Isophthalic	Multi-purpose, chemical resistance, filament winding	105	3.5	60	2.7	375	24	42	145
Food Contact & Drinking Water										
Atlac® 5200 FC	VE Bisphenol A	Elevated chemical resistance, food contact applications, GMP	105	6.1	95	3.6	470	13	20.5	150
Beyone™ 700-T-01 FC 	VE	Relining, hot-cure, potable water, GMP, Styrene-free	-	3.4	65	2.9	1,150 (20 s ⁻¹)	50	58	138
L050-LCW-03 FC 	VE	Relining, light cure, potable water, GMP, Styrene-free	79	5.0	60	2.9	1300	-	3	150
Palatal® P 69-02	Orthophthalic	Multi-purpose, flexible, potable water, high HDT	90	3.4	75	3.8	700	14	25	165
Palatal® A 400-01 FC	Isophthalic	Multi-purpose, Lloyds Approval, Filament winding, GMP	93	4.6	90	3.7	1	9	19	160
Specialty Resins										
Palatal® P 51-01	Tetrahydro-phthalic	Multi-purpose bonding resin, resistant to cracks and styrene attack	84	7	75	-	1,000	14.5	18	175
Gelcoat & Pigment Resins										
Palatal® E 220-01	Flexibilizer	Flexibilizing resin. Particular when chemical resistance is critical	-	42	13	0.1	73	17.5	37	73
Synolite™ 0270-N-2	Isophthalic	High quality Iso-NPG gelcoat base resin, low color and great yellowing resistance	100	4	85	3.7	2,100	5.7	16	150
Synolite™ 0271-N-2	Isophthalic	High quality Iso-NPG gelcoat base resin, low color and great yellowing resistance, Lloyds approval	-	-	-	-	2,000	6	16	145
Synolite™ 4120-N-1	Isophthalic	Flexibilizing resin. Particular when chemical resistance is critical	20	90	-	-	-	22	-	65
Synolite™ 2631-N-0 	Flexibilizer	Pigment paste resin	-	-	-	-	165	-	-	-
Synolite™ 8515-N-0	Flexibilizer	Pigment paste resin	-	-	-	-	255	-	-	-
Hand Lay-up & Spray-up										
Atlac® 580 ACT	VE Urethane	Thixotropic and preaccelerated, low shrinkage, tie coat, Lloyds/ RINA approval	115	4.2	83	3.5	550	28.5	47.5	140
Atlac® E-Nova MA 6325	VE Bisphenol A	Low styrene content, tie coat for Marine applications, RINA approval	110	2.5	70	4	575	28	38	140
Synolite™ 5410-P-1	Orthophthalic	HLU, thin and thick laminates, LSE, DNV approval	63	2.1	70	4.0	390 (20 s ⁻¹)	25	44	80

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Synolite™ 5410-P-2	Orthophthalic	HLU, LSE, thin and thick laminates, improved throughcure at lower temperature, DNV approval	63	2.1	70	4.0	390 (20 s ⁻¹)	12	27	85
Synolite™ 5410-P-3	Orthophthalic	HLU, LSE, fast through-cure, short demoulding time, DNV approval	63	2.1	70	4.0	390 (20 s ⁻¹)	12	23.5	105
Synolite™ 5410-I-1	Orthophthalic	Multi-purpose HLU, thick laminates, Lloyds/ DNV approval	63	2	70	4.0	350	27	56	80
Synolite™ 5410-I-2	Orthophthalic	Multi-purpose HLU, thick laminates, Lloyds/ DNV approval	63	2	70	4.0	350	27	56	80
Synolite™ 5690-P-1	Orthophthalic	HLU, thin laminates, LSE, high HDT, DNV approval grade 1, Lloyds approval	90	3.4	75	3.8	380	24	36	165
Synolite™ 5700-P-1	Orthophthalic	LSE, fast green strength, Lloyds/ DNV approval	90	2.4	90	4.4	525	25	47	135
Synolite™ 5700-P-4	Orthophthalic	HLU, thick laminates, LSE, higher HDT, Lloyds approval	90	2.4	80	4.4	450	25.5	47.5	77
Synolite™ 0288-L-1	Isophthalic	Multi-purpose HLU, thick laminates, good retention of properties, Lloyds approval	75	2.5	80	4.1	400	26	55	95
Synolite™ 3720-I-1	Isophthalic	HLU, enhanced mechanical properties	105	3.5	60	2.7	475	26	45	155
Synolite™ 8388-I-1	DCPD	Multi-purpose HLU, low print-through, DNV approval, RINA approval	85	2.2	70	3.7	420	16	28	130
Synolite™ 8388-I-2	DCPD	Multi-purpose HLU, low print-through, RINA approval	70	2.5	55	3.2	560	24	34	130
Synolite™ 8388-L-7	DCPD	Multi-purpose HLU, short demoulding, RINA	85	2.2	70	3.7	335	20	55	60
Synolite™ 8388-P-1	DCPD	Multi-purpose HLU, thick laminates, low shrinkage, LSE, DNV approval	85	2.2	70	3.7	355	24	45	110
Synolite™ 8388-P-2	DCPD	Multi-purpose HLU, thick laminates, low shrinkage, LSE, DNV approval	85	2.2	70	3.7	335	34	55	105
H432-AODG-14 	PET	Made from recycled PET, multi-purpose	74	2.5	79	4,1	475	14	21	115
H432-WZBG-10 	PET	Made from recycled PET, acrylic back-up in sanitary, white colored	68	2.5	80	4,3	360	10	20	160
Continuous Lamination										
Synolite™ 8085-X-2	Orthophthalic	Multi-purpose resin, medium reactive, UV-stabilized	65	2	70	4.2	570	8	16	152
Synolite™ 8388-N-4	DCPD	Multi-purpose resin, medium reactive	85	2.2	70	3.7	350	7.5	16	160
Palatal® P 4-L21	Orthophthalic	UV-stabilized, corrugated sheets	63	2.0	70	4.3	615	18.5	26	145
F421-BBC-00 	PET	Made from recycled PET, multi-purpose	97	3,5	87	4,1	215	16,3	18,3	175
Mold Building / Tool Making										
Neomould® 2017-S-1	DCPD	Low exotherm, thick laminates, zero shrink, easy processing	80	-	-	-	650	23.5	34	145
Neomould® 6800-I-1	VE Bisphenol A	Low exotherm, thick laminates, low shrink, easy processing	116	3	60	3	500 (60 s ⁻¹)	32	14	165
Neomould® 6800-G-1	VE Bisphenol A	Low shrinkage, low profile, infusion grade	116	3	60	3	125 (60 s ⁻¹)	18	8.5	196

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Infusion/ RTM										
Atlac® 580 AC 300	VE Urethane	Infusion, low shrinkage, low exotherm, excellent hydrolysis resistance, Lloyds/ RINA approval	107	3.4	78	3	150	70	87.5	140
Atlac® E-Nova MA 6215	VE Bisphenol A	Enhanced flow for infusion processes, RINA approval	105	2.5	70	4	85	46	76	120
Synolite™ 1967-G-1	DCPD	Low exotherm, thin and thick laminates, injection with rigid top-mould, RTM, Lloyds/DNV approval	70	2.3	70	3.8	207	8.5	18	130
Synolite™ 1967-G-2	DCPD	Infusion under flexible foil, medium gel time, Lloyds/DNV approval	85	2.3	70	3.8	170	44	59	125
Synolite™ 1967-G-9	DCPD	Low exotherm, thin and thick laminates, infusion under flexible foil, Lloyds/DNV approval	85	2.3	70	3.8	170	45.5	61	130
Synolite™ 7412-G-1	Isophthalic	Multi-purpose, improved chemical resistance	73	-	61	2.8	240	33	38	135
Synolite™ 8488-G-1	DCPD	Low exotherm, good throughcure, Lloyds approval	85	3	66	3.5	130	24	38	120
Synolite™ 8488-G-2	DCPD	Excellent surface quality on very large parts, low exotherm, Lloyds approval	85	3	66	3.5	85	47	85	53
Synolite™ 8488-G-11	DCPD	Great surface quality, infusion under flexible foil, Lloyds approval	64	3	66	3.5	135	47	85	57
SMC / BMC										
Atlac® XP 810 X	VE Urethane	Chemical resistance, thickenable	145	3.5	81	3.6	2,250	2.7	3.5	270
Beyone™ 805-N-01 	VE Urethane	Styrene-free	-	-	-	-	2,250	1.1	1.6	-
Beyone™ 806-H-01 	PVAC	Styrene-free LP additive	-	-	-	-	3,300	-	-	-
Beyone™ 820-H-01 	Polystyrene	LS additive, fully pigmentable plus zero shrinkage, high gloss	-	-	-	-	4,250	-	-	-
Beyone™ 875-H-01	PVAC	LP additive with low viscosity for high filler and fiber loading	-	-	-	-	2.25	-	-	-
Daron® 8151	VE Bisphenol A	SMC structural applications, carbon and glass, excellent fiber wetting, ultra-low part emissions	150 (Tg)	3.5	80	3.3	700	180	240	240
Palapreg® H 814-01	Polystyrene	Multi-purpose LS-Additive, good pigmentability	-	-	-	-	5,400	-	-	-
Palapreg® H 852-03	Polyester	Class A LP-Additive with excellent flow for low-pressure SMC	-	-	-	-	163	-	-	-
Palapreg® H 860-01	Polyester	Class A LP-Additive, good pigmentability in combination with Palapreg® H 814-01	-	-	-	-	400	-	-	-
Palapreg® H 2681-01	Polyester	Top Class A LP-additive	-	-	-	-	1,500	-	-	-
Palapreg® H 2700-01 	Polyester	Top Class A additive with enhanced mechanical properties and lower emissions	-	-	-	-	2,900	-	-	-
Palapreg® P 0030-03	Orthophthalic	Flexible resin, toughening agent	-	-	-	-	255	2	2.8	255
Palapreg® P 0423-02	Maleic	Resin for LP and Class A applications	145	1.7	55	-	1,325	1.6	2.5	288
Palapreg® P 17-02	Orthophthalic	Multi-purpose	125	1.7	60	-	1,400	1.5	2.2	278
Palapreg® P 190-01	Orthophthalic	Multi-purpose	117	2.2	65	3.6	535	110	55	105
Palapreg® P 18-03	Maleic	Class A, Low shrinkage, Low profile	140	1.5	50	-	1,790	0.9	1.7	283
Palapreg® P 145-01	Maleic	High quality, low shrinkage	133	2.4	61	3.9	1,650	89	130	280
Palapreg® P 152-02 X	Isophthalic	Improved chemical and hydrolysis resistance, water tanks	-	-	-	-	1,650	1.7	2.4	280
Palapreg® P 2273-01	Orthophthalic	Multi-purpose LS/LP applications, homogeneous pigmentability	120	2.4	70	-	2,450	1.7	2.3	280

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Polymer Concrete & Casting										
Synolite™ 0328-A-1	Orthophthalic	Clear casting, figurine casting	55	1.6	-	-	-	21	50	45
Synolite™ 0564-A-1	Orthophthalic	Castings with low color, solid surface	75	2.1	70	4	1,150	13	31	120
Synolite™ 1112-G-1 	PET	Excellent filler wetting, high filler loads, good through cure	60	2.0	60	3.4	255	15	27	135
Synolite™ 1862-A-1	Isophthalic/NPG	Solid surface	-	-	-	-	1,150	22.5	40	175
Synolite™ 2155-N-1	Orthophthalic	High temperature, good mechanicals	110	2	60	-	275	5	11	195
Synolite™ 5750-A-3	DCPD	Shower tray casting (behind gelcoat)	82	1.5	40	3.3	180	9	14.5	130
Synolite™ 5758-A-2	DCPD	Shower tray casting (behind gelcoat or ABS)	43	3.8	47	1.6	185	7	12	110
A425-PCA-19 	PET	Made from recycled PET, excellent filler wetting, high filler loads	84	4.9	85	3	185	20,5	26,5	180
Putty Resins										
B013-SSA-05	VE Bisphenol A	BPO curable, chemical resistance, adhesion to natural stone, granite	110	6.6	88	3.2	2,000 (60 s ⁻¹)	5	7	140
Palatal® K775 V-02	VE Bisphenol A	Enhanced chemical resistance, pre-accelerated with amine	105	6.1	95	-	440	6.5	9.5	133
Synolite™ 0432-U-1	Orthophthalic	Multi-purpose, marble, rigid	80	2.1	72	4.2	1,170	7.5	10	168
Synolite™ 0542-U-2	DCPD	Multi-purpose, wood, semi-rigid	56	11	55	2.5	710	8.5	11.5	140
Synolite™ 2710-U-2	Tetrahydro-phthalic	Binder for highly filled knifing fillers for metal wood and minerals, high flexibility		56	9	-	495	6.7	9.75	110
Synolite™ 6494-U-2	DCPD	Multi-purpose binder for fillers and putties, balanced adhesion, excellent sandability	30	33	19	0.79	685	6.2	10	115.5
Synolite™ 7259-U-2	Tetrahydro-phthalic	Binder for highly filled putties with excellent adhesion to galvanized steel	-	-	-	-	650	7	10	120
Synolite™ 8388-U-2	DCPD	Binder for metal, wood and minerals, low temperature cure down to 0 °C	85	2.2	70	3.3	180	6.7	11.5	125
Pultrusion										
Atlac® 430	VE Bisphenol A	Multi-purpose, chemical resistance (alkali), carbon fiber capability	105	6.1	95	3.6	470	13	22	150
Atlac® 590	VE Novolac	High temperature applications, chemical resistance (solvents, strong acids)	140	4	90	3.5	245	24	31	160
Daron® 45	VE Bisphenol A	High temp. resistance, carbon fiber capability	210	2.5	70	3.2	200	24	27	165
K022-ACA-00	VE Bisphenol A	Flame retardant, brominated	116	4.7	86	3.6	450 (20 s ⁻¹)	15	9	177
Palatal® A 400-01 FC	Isophthalic	Food contact applications, Lloyds approval	93	4.6	90	3.7	1,000	9	19	160
Palatal® A 410-01	Isophthalic/NPG	Chemical resistance, adhesion to PVC, Lloyds approval	107	4.4	85	3.6	1,200	11	19	175
Palatal® E 240-02	Flexibilizer	Flexibilizing resin. Particularly used when chemical resistance is critical	-	75	19	0.4	335	28	43	100
Palapreg® H 1080-01	PVAC	Low Profile additive	-	-	-	-	4,100	-	-	-
Palapreg® P 0423-02	Maleic	Resin for LP and Class A applications	145	1.7	55	-	1,325	1.6	2.5	288
Synolite™ 0152-N-2	Isophthalic	Chemical resistance, good mechanical performance	96	4.2	87	3.6	835	11	13	220
Synolite™ 0175-N-1	DCPD	Good wetting (fibers, fillers), good mechanical performance	95	2.5	60	3.7	380	8	1.5	215

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Synolite™ 2155-N-1	Orthophthalic	High temperature, good mechanical performance	110	2	60	-	275	5	11	195
Synolite™ 4120-N-1	Isophthalic	Flexibilizing resin. Particular when chemical resistance is critical	20	90	-	-	-	22	-	65
Synolite™ 5011-N-1	UP special	High filler loading capability (ATH), very low smoke density	108	2.2	70	3.8	40	5	8	190
CIPP / Relining										
Atlac® 590 T	VE Novolac	Hot cure, chemical resistance, industrial	140	4	90	3.5	700	43	47	185
Atlac® E-Nova RE 3475 X	VE Urethane	UV-cure, DIN 18820/5, 1310, MgO thickenable	145	3.5	81	3.6	700	-	5.5 (TM 2500)	190 (TM 2500)
Atlac® Premium 600 	VE Bisphenol A	Hot cure, styrene-free, long pot-life	103	2.5	66	3.3	1,400 (20 s ⁻¹) (TM 2259)	17 (TM 2259)	27 (TM 2259)	143 (TM 2259)
L050-LCW-03 FC 	VE Bisphenol A	UV-cure, styrene-free, improved ductility	79	5	160	2.9	1,200 (10 s ⁻¹)	-	3 (TM2500)	150 (TM2500)
L050-LCA-03 	VE Bisphenol A	UV cure, styrene-free	79	5	60	2.9	4,000 (5 s ⁻¹)	-	3 (TM2500)	150 (TM2500)
Palatal® P 92 I-04	Isophthalic/NPG	UV-cure, DIN18820/3, EN 13121/4, MgO thickenable	107	5.6	85	3.6	700	-	9 (TM 2500)	195 (TM 2500)
Palatal® A 405 T-02	Isophthalic	Hot cure, semi-flex, pressure pipes (not for drinking water), low temperature (< 40 °C), thixotropic	51	9.5	67	3	840	19	25	155
Synolite™ 2103-Q-1	Orthophthalic/NPG	UV-cure, DIN 18820/3, EN 13121/4, MgO thickenable	112	2.1	65	4	700	-	5.5 (TM 2500)	195 (TM 2500)
L421-ALV-20 	PET	Made from recycled PET, hot cure, multi-purpose	97	3,5	87	4,1	-	19,5 (TM2259)	25,5	192
Flame Retardant Resins										
K022-ACA-00	VE Bisphenol A	Flame retardant, Brominated	116	4.7	86	3.6	450 (20 s ⁻¹)	21	13	171
Synolite™ 5011-N-1	UP special	High filler loading capability (ATH), very low smoke density	108	2.2	70	3.8	40	5	8	190

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