



APAO Polymers & Adhesives

YOUR INNOVATION PARTNER FOR ADHESIVE TECHNOLOGY...



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BENEFITS TO USING REXtac APAO

- Fast, Flexible, Customizable
- Eco-friendly
- Low Cost = Eliminate Equipment Downtime Due to Ease of Processing
- Better Mileage = REDUCE Cost Per Square Meter
- Wide Application Methods
Spray ➤ Pump ➤ Roll Coating ➤ Slot
- Use Neat = NO Additional Additives
- Polymer Rich Formulas
- Global APAO supplier, offering 2 plant locations: USA and South Korea

REXtac POLYMERS AND ADHESIVES HAVE BEEN A STANDARD IN THE INDUSTRY FOR PERFORMANCE AND CONSISTENCY DATING BACK TO 1986



REXtac, LLC and D-REX partnered to build a second plant site in South Korea. This partnership ensures supply security and accessibility for our global customers. Our mission is to provide industry leading, high quality polymers capable of satisfying a wide range of applications and adhesive needs worldwide.

REXtac polymers are available in four primary grades

Propylene homopolymers | Ethylene-propylene copolymers | Butene-propylene copolymers | Ethylene-propylene-butene-1 terpolymers



PACKAGING OPTIONS

- 1 Pillows
- 2 Drums (Fiber & Steel)
- 3 Molten Rail Cars
- 4 Molten Tank Trucks

Our APAO plant, located in Odessa, Texas, produces four primary grades of polymers. This production advantage and our in-house R&D lab provides us the flexibility required to deliver a custom REXtac polymer to meet your unique requirements and deadlines. REXtac, LLC is excited to partner with you in creating customized solutions for your most challenging adhesive needs.

INDUSTRY REFERENCE



INDUSTRY	APPLICATION	ADHESIVE SERIES
Automotive	◦ Battery Assembly ◦ Load Floor ◦ Filter Assembly ◦ Headliner Components ◦ Head lamp Bonding ◦ Vibration/Sound Deadening ◦ Bi-laminate: All Interior Applications Above and Below the Beltline	2315 2535 2730 2780 6723 9721 9745 BG201 2115 2180 2215 2725cs225 2788 2115 2180 6723 6825 BG201 2304 2315 2725cs225 2788 2180 2215 2730 6723 6825 BG201 6275 6723 6825
Nonwoven	◦ Personal Hygiene ◦ Gowns & Drapes ◦ Incontinence Mattress Pads ◦ Dental Bibs ◦ Pet Training Pads	2730 2830 7205 7723 E101 59780 2730 7205 7723 E101 2730 7205 7723 E101 2730 7205 7723 E101 2730 7205 7723 E101
Building & Construction	◦ Window Sealant ◦ Garage Door Sealing ◦ Pipe Wrap ◦ Carpet Backing ◦ Peel & Stick Flooring ◦ Shower Sealing	2304 2315 2535 2585 2730 2732 2780 2730 9721 95140 2304 2535 6723 BG201 52627 59780 2730 2730 2732
Packaging	◦ Pallet Stabilization ◦ Point of Sale Display ◦ Specialty Packaging	2304 6723 6825 52627 6275 6723 6825 9721 9745 BG201 52627
Furniture	◦ Mattress ◦ Woodworking ◦ Office Furniture ◦ Foam Bonding	2730 6723 6739 7723 9130 9705 9721 9745 E101 2788 6275 6723 BG201 2788 6275 6723 6825 9705 9721 2730 2830 6275 6723 6739 6825 9705 9721 9745 7723 BG201 59780
Wire & Cable	◦ Filling ◦ Flooding ◦ Fiber Optic	2535 2535 2730 7723 E101
Filtration	◦ Heating, Air Conditioning & Ventilation (HVAC) ◦ Transportation Cabin Filter ◦ Water & Fluid	2115 2535 6275 6825 2115 2535 6275 6825 2115 2535 6275 6825
Electronics/Appliance Assembly	◦ Low Pressure Molding Systems ◦ Appliance Wire Harness	2180 6275 9130 52627 9130

TYPICAL PRODUCTION SPECIFICATIONS

Polymers, Adhesives, & Sealants

PRODUCT	POLYMER TYPE	MELT VISCOSITY cps (@ 190 °C)	NEEDLE PENET. {dmm}	R & B SOFT POINT		GLASS TRANSITION TEMP		OPEN TIME sec	TENSILE STRENGTH	
				°C	°F	°C	°F		Mpa	psi
RT2115	Homopolymer	1,500	15	152	305	-20	-4	<5	2.30	335
RT2180	* * Homopolymer	8,000	10	157	315	-20	-4	<5	2.56	375
RT2215	Low Ethylene Copolymer	1,500	20	143	290	-22	-8	10	0.87	126
RT2280	Low Ethylene Copolymer	8,000	15	146	295	-22	-8	10	1.10	160
RT2304	Medium Ethylene Copolymer	400	25	141	285	-29	-20	20	0.50	72
RT2315	Medium Ethylene Copolymer	1,500	25	141	285	-29	-20	20	0.57	83
RT2330	Medium Ethylene Copolymer	3,000	20	141	285	-29	-20	20	0.82	120
RT2385	Medium Ethylene Copolymer	8,500	20	141	285	-29	-20	20	0.80	116
RT2460	Medium Ethylene Copolymer	6,000	30	138	280	-27	-17	30	—	—
RT2535	* * * * * High Ethylene Copolymer	3,500	45	132	270	-30	-22	60	0.34	50
RT2585	High Ethylene Copolymer	8,500	45	132	270	-30	-22	60	0.34	50
RT2715	Butene-1 Copolymer	1,500	30	110	230	-23	-9	120	0.56	81
RT2725cs225	Butene-1 Copolymer	2,500	6	134	238	—	—	60	—	—
RT2730	Butene-1 Copolymer	3,000	30	110	230	-23	-9	300	0.61	90
RT2732	Butene-1 Copolymer	3,000	22	121	250	-22	-8	120	0.59	85
RT2780	Butene-1 Copolymer	8,000	25	110	230	-23	-9	>350	0.69	100
RT2788	Butene-1 Copolymer	8,500	<10	118	245	-23	-9	80	7.58	1100
RT2807	Butene-1 Copolymer	750	25	90	194	-23	-9	>800	1.17	170
RT2815	Butene-1 Copolymer	1,500	25	85	185	-23	-9	800	0.86	125
RT2830	Butene-1 Copolymer	2,700	10	90	194	-23	-9	350	1.23	178
RT2880	Butene-1 Copolymer	8,000	8	93	199	-28	-18	>450	3.00	430
RT29180	Ethylene Copolymer	18,000	20	128	262	-40	-40	—	—	—
RT2935	Ethylene Copolymer	3,500	25	128	262	-41	-42	—	—	—
RT2975	Ethylene Copolymer	7,500	23	127	261	-41	-42	—	—	—

TYPICAL PRODUCTION SPECIFICATIONS

Adhesives & Sealants

PRODUCT		POLYMER TYPE	MELT VISCOSITY cps (@ 190°C)	NEEDLE PENET. {dmm}	R & B SOFT POINT		GLASS TRANSITION TEMP		OPEN TIME sec	TENSILE STRENGTH	
					°C	°F	°C	°F		Mpa	psi
RT6275	*	Formulated Ethylene Copolymer	7,500	10	155	311	-13	9	<5	2.3	355
RT6723		Formulated Butene Copolymer	2,300	30	143	289	-15	5	60	0.38	55
RT6739		Formulated Butene Copolymer	4,000	7	140	284	—	—	60	—	—
RT6825	*	Formulated Butene Copolymer	2,600	17	156	313	-23	-9	20	1.12	162
RT7205		Formulated Ethylene Butene Copolymer	500	24	134	273	—	—	90	—	—
RT7723		Formulated Butene Copolymer	2,200	30	107	225	-15	5	>900	—	—
RT7573		Formulated Ethylene Copolymer	7,200	35	131	268	-29	-20	50	—	—
E101		Formulated Butene Copolymer	2,000	35	105	220	-13	9	900	0.20	29
RT9130	* *	Formulated Butene Copolymer	3,100	5	135	275	-22	-8	<5	—	—
RT95140		Formulated Ethylene Copolymer	14,000	35	135	275	-32	-26	—	—	—
RT9705		Formulated Butene Copolymer	2,455	30	110	230	-19	-2	>425	0.30	43
RT9721		Formulated Butene Copolymer	2,000	28	116	240	-10	14	480	0.37	54
RT9745		Formulated Butene Copolymer	4,500	15	121	250	-12	10	120	—	—
BG201		Formulated APAO	4,500	10	141	285	-12	10	240	9.0	1300

TYPICAL PRODUCTION SPECIFICATIONS

Terpolymer - Adhesive & Sealants

PRODUCT	POLYMER TYPE	MELT VISCOSITY cps (@ 190 °C)	NEEDLE PENET. {dmm}	R & B SOFT POINT		GLASS TRANSITION TEMP		OPEN TIME sec	TENSILE STRENGTH	
				°C	°F	°C	°F		Mpa	psi
RT52627	Terpolymer	2,700	13	130	265	-27	-17	20	1.73	250
RT537500	Terpolymer	50,000	14	107	225	-29	-20	—	—	—
RT59780	Terpolymer	8,000	21	109	228	-35	-31	20	1.4	198

* Patent 9,695,342

**UL94V2 Certified Flammability Standard of Plastic Materials for Parts in Devices and Appliances

***UL723 Certified Surface Burning Characteristics of Building Materials

- Melt Viscosity = ASTM D-3236
 - Needle Penetration = ASTM D-1321
- R & B Softening Point = ASTM E-28
 - Glass Transition Temp = ASTM D-3418
- Open time = ASTM D-4497
 - Tensile Strength = ASTM D-638, D-412

Production specification numbers are typical. For actual specification ranges contact your sales person.

REXtac's State of the Art APAO Pilot Plant

Within the Odessa petrochemical production facility, REXtac commissioned and started a new 200 gallon reactor pilot plant. The plant is capable of producing developmental APAOs with an extensive range of monomers and catalyst systems. With continuous production of up to 100 pounds an hour, REXtac can make a wide range of APAO products including:



- O1. REXtac's 100% APAO neat polymer
- O2. Tackifier-free pressure sensitive adhesive APAO
- O3. No/low odor APAO
- O4. No/low VOC APAOs

The plant is equipped to facilitate the continued development of REXtac's 100% olefin-based tackifier-free systems for the replacement of traditional hydrogenated C5, hydrogenated C5-C9, and DCPD-based tackifiers in hot melt polyolefinic adhesives.

Contact your REXtac Sales Director to schedule a trial or visit REXtac LLC to see the leading edge APAO pilot plant.



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