

TECKREZ

Specialists in Tackifier Resins and Acrylic Monomers

TECKREZ®

TECKROS®

TECKSTAR™

RESIN PRODUCT GUIDE



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BIO-BASED RESINS SUMMARY

Trade Name	Grade	Soft. Point	Glass Transition Temp. (Tg)	Gardner Color		Acid Value	-OH Value	Molecular Weight			Viscosity cps at			Density at 25°C	SG	Applications	Bio-renewable Content	Description
		R&B		50T	Neat			Mw	PD	Mz	40°C	125°C	177°C					
ROSIN ESTERS																		
TECKROS®	RL10	Liquid	-22°C	4	6	15	50	650	1.2	800	10,000	N/A	<10	8.8	1.05	CF, PSA	79.3%	Liquid, glycol ester
TECKROS®	R25	25°C	-15°C	4	6	20	40	600	1.2	750	28,000	N/A	<10	8.8	1.04	CF, PSA	81.6%	Semi-solid glycol ester
TECKROS®	R40	38°C	2°C	4	6	15	40	550	1.2	700	N/A	1,500	<10	8.8	1.05	CF, PSA	88.9%	Semi-solid glycol ester
TECKROS®	R86	88°C	37°C	2+	4	8	25	900	1.3	1,200	N/A	3,500	90	8.9	1.07	CF, HM, PSA	98.9%	Glycerol ester
TECKROS®	R98	98°C	45°C	2-	3+	12	20	1,300	1.5	2,600	N/A	10,000	150	9.0	1.08	HM	97.0%	Modified glycerol ester, light color
TECKROS®	R100	100°C	47°C	3	5	14	25	1,200	1.3	1,500	N/A	10,000	150	9.0	1.08	CF, HM, PSA	89.4%	Pentaerythritol ester
TECKROS®	R101	101°C	48°C	3	5	15	20	1,300	1.6	2,500	N/A	20,000	250	9.0	1.08	CF, HM, PSA	87.9%	Modified pentaerythritol ester
TECKROS®	R110	108°C	53°C	3	5	15	20	1,600	1.4	3,150	N/A	38,000	400	9.0	1.08	HM	83.9%	Modified pentaerythritol ester
TECKROS®	R120	120°C	63°C	4	6	15	15	1,610	2.0	5,200	N/A	>50,000	600	9.0	1.08	CF, HM	85.3%	Modified pentaerythritol ester
TECKROS®	M105	105°C	73°C	3	5	36	15	1,500	2.0	3,500	N/A	15,000	500	9.2	1.12	PC, RM	95.8%	Maleic modified ester
TECKROS®	M120	117°C	84°C	3	5	36	15	2,300	2.8	5,800	N/A	50,000	1,500	9.2	1.12	PC, RM	94.7%	Maleic modified ester
TECKROS®	M130	132°C	73°C	4	6	36	15	4,900	5.0	1,390	N/A	>50,000	2,000	9.2	1.12	PC, PI	90.7%	Maleic modified ester
TECKROS®	AF128	128°C	70°C	6	8	118	12	3,500	2.8	5,200	N/A	>50,000	2,200	9.2	1.12	PC, PI	88.4%	Fumaric modified ester
TECKROS®	AF160	156°C	95°C	6	8	223	15	3,600	3.1	5,800	N/A	>50,000	2,300	9.4	1.14	PC, PI	81.5%	Fumaric modified ester
HYDROGENATED ROSIN AND ROSIN ESTERS																		
TECKROS®	HRL	Liquid	-30°C	1+	3	6	0	320	1.1	350	1,500	N/A	<10	8.7	1.04	PI, PSA	87.2%	Hydrogenated methyl ester
TECKROS®	H3	Liquid	-23°C	3	5	8	40	600	1.1	720	7,000	N/A	<10	8.8	1.05	CF, PSA	80.6%	Hydrogenated glycol ester
TECKROS®	HB	78°C	29°C	4	6	172	0	306	1.0	350	N/A	500	25	8.8	1.05	PSA, SF	100%	Partially hydrogenated rosin acid
TECKROS®	HX	78°C	29°C	1+	3	172	0	306	1.0	350	N/A	500	25	8.8	1.05	PSA, SF	100%	Highly hydrogenated rosin acid
TECKROS®	H80	82°C	32°C	3	5	8	20	800	1.2	850	N/A	1,200	40	8.8	1.06	PSA	98.5%	Highly hydrogenated glycerol ester
TECKROS®	H81	85°C	32°C	5	7	9	20	800	1.2	950	N/A	1,200	40	8.8	1.06	PSA	98.5%	Hydrogenated glycerol ester
TECKROS®	H95	98°C	44°C	3	5	12	25	1,000	1.3	1,150	N/A	6,000	140	8.9	1.07	PSA, SF	88.7%	Highly hydrogenated pentaerythritol ester
TECKROS®	H96	98°C	44°C	5	7	12	25	950	1.3	1,100	N/A	6,000	140	8.9	1.07	PSA	88.7%	Hydrogenated pentaerythritol ester
TECKROS®	HXL90	90°C	39°C	<1	1	9	10	800	1.1	840	N/A	3,000	80	9.0	1.08	PSA, SF	98.3%	Ultra hydrogenated glycerol esters
TECKROS®	HXL100	100°C	47°C	<1	1	15	15	1,000	1.1	1,150	N/A	9,000	150	9.0	1.08	PSA, SF	88.5%	Ultra hydrogenated pentaerythritol ester
ROSIN and TERPENE PHENOLICS																		
TECKROS®	RP125	124°C	76°C	4	6	25	90	1,600	1.3	3,200	N/A	>50,000	2,000	9.2	1.10	HM, PSA	76.2%	Rosin Phenolic
TECKROS®	RP150	150°C	88°C	4	6	50	90	2,100	1.5	3,700	N/A	>50,000	2,500	9.4	1.12	HM, PSA	74.8%	Rosin Phenolic
TECKREZ®	TP96	98°C	50°C	7	9	1.5	60	700	1.3	950	N/A	9,000	100	9.2	1.10	CC, HM, PSA	83.0%	Lower OH terpene phenol
TECKREZ®	TP120	118°C	70°C	4	6	1.5	140	800	1.3	950	N/A	>50,000	400	9.2	1.10	CC, HM	71.0%	High OH terpene phenol
UPGRADED ROSINS																		
TECKROS®	D85	85°C	35°C	4	6	155	0	410	1.1	520	N/A	1,000	50	8.9	1.07	CF, HM	99.8%	Dimerized rosin, slightly
TECKROS®	D95	98°C	45°C	5	7	168	0	450	1.2	640	N/A	5,000	100	8.9	1.07	CF, HM, PI, WC	96.9%	Dimerized rosin, partially
TECKROS®	D140	140°C	80°C	7	9	148	0	550	1.2	750	N/A	>50,000	1,500	8.9	1.07	CF, PI, WC	99.8%	Highly dimerized rosin
TECKROS®	NC100	100°C	45°C	4	6	168	0	500	1.1	650	N/A	5,000	70	8.9	1.07	CF, HM, PI, WC	94.6%	Modified rosin, crystallization-resistant

Guide Application Key: ASPH=Asphalt CC=Contact Cements CF=Construction & Flooring Adhesives GS=Glue Sticks HM=EVA Hot Melts PA = Product Assembly PC=Paint & Coating PI=Printing Ink PLC = Plastic Compounding PSA=Pressure Sensitive Adhesives RC=Rubber Compounding RM=Road Marking SLT=Sealants SF=Solder Flux WC=Wax Compounding



HYDROCARBON RESINS SUMMARY

Trade Name	Grade	Soft. Point	Glass Transition	SG	Bulk Density	Aromatic H	Color			Iodine Value	Molecular Weight			Viscosity cps at		Applications	Description
		R&B	Temp. (Tg)				YI	GC 50T	GC Neat		Mw	PD	Mz	125°C	177°C		
C5 ALIPHATIC																	
TECKREZ®	C5L-10	10°C	-33°C	0.92	7.7	0		4	6	45	600	1.2	760	5,200*	<10	PSA	Liquid Resin, 100% solids. *at 30°C
TECKREZ®	C5-95	98°C	44°C	0.95	7.9	0		3	5	45	1,700	1.7	2,800	28,000	600	PSA, WC	Narrow MWD for PSA
TECKREZ®	C5-98	98°C	45°C	0.95	7.9	0		2.5	4	45	2,200	2.2	5,200	30,000	800	HM, PSA, WC	Light color for HMA and casting wax
TECKREZ®	C5-100	100°C	47°C	0.95	7.9	0		3	5	45	3,100	2.4	6,100	32,000	950	RC, RM, SLT, WC	Good UV resist for coatings and butyl sealants
TECKREZ®	C5-101	102°C	49°C	0.95	7.9	0		3.5	5.5	45	3,800	2.7	9,200	40,000	1,200	RM, SLT	Economical for road marking
TECKREZ®	C5-115	115°C	55°C	0.96	8.0	0		3	5	45	3,300	2.0	6,000	>100,000	2,000	HM, PSA, WC	High SP for PSA or casting wax
C5 ALIPHATIC, C9 MODIFIED																	
TECKREZ®	C59-86	88°C	36°C	0.96	8.0	9%		3	5	40	1,500	1.6	2,700	4,500	250	HM, PSA	Designed for PSA
TECKREZ®	C59-93	93°C	41°C	0.96	8.0	5%		3	5	40	1,700	1.7	2,900	10,000	400	PSA, RC	Good fit for PSA and rubber, like STS
TECKREZ®	C59-97	97°C	44°C	0.96	8.0	4%		3	5	40	2,000	1.7	3,850	25,000	500	HM, PSA	Extra good fit for PSA
C9 AROMATIC, C5 MODIFIED																	
TECKREZ®	C95-99L	99°C	42°C	1.06	8.9	27%		3	5	30	1,500	1.6	3,800	60,000	1,400	HM, PSA	Light, clean, general purpose
TECKREZ®	C95-100	100°C	43°C	1.06	8.9	21%		5	8	30	1,800	1.8	3,400	>100,000	1,400	HM	General purpose
TECKREZ®	C95-109L	109°C	51°C	1.06	8.9	29%		3	5	30	1,550	1.7	2,950	>100,000	3,000	HM, PSA	Light, clean, general purpose
TECKREZ®	C95-110	109°C	51°C	1.06	8.9	21%		5	8	30	1,800	1.8	3,700	>100,000	3,000	HM	General purpose
TECKREZ®	C95-119L	120°C	60°C	1.06	8.8	31%		3	5	30	1,600	1.8	2,900	>100,000	4,000	HM, PC	Light, clean, general purpose
C9 AROMATIC																	
TECKREZ®	C900-P	102°C	46°C	1.07	8.9	40%		8	10	25	1,200	1.5	1,850	50,000	1,500	HM, PC	Darker grade for coatings
TECKREZ®	C910	110°C	52°C	1.07	8.9	45%		3	3	25	1,500	1.5	2,900	>100,000	9,000	HM, PA	High aromatic content
TECKREZ®	C920-HM	120°C	60°C	1.07	8.9	40%		3	5	25	1,350	1.6	1,980	>100,000	3,500	HM	Light, clean, general purpose
TECKREZ®	C940	140°C	83°C	1.07	8.9	40%		5	7	25	1,400	1.6	2,250	>100,000	18,000	HM, PC	Fast-dry alkyd coatings
C9 AROMATIC, DCPD MODIFIED																	
TECKREZ®	CX-902	100°C	44°C	1.07	8.9	12%		11	13	120	950	1.8	1,900	>100,000	1,000	CF, PC, RC	Economical resin for general use
TECKREZ®	CX-918	118°C	58°C	1.07	8.9	11%		10	12	120	1,050	1.8	2,050	>100,000	3,000	CF, PC, PI	Economical resin for general use
PURE MONOMER																	
TECKREZ®	Y-70	70°C	25°C	1.07	8.9	51%	2	0	0	25	730	1.7	1,040	1,200	<100	HM, PA, PSA	Pure aromatic resin, excellent color and stability
TECKREZ®	Y-85	86°C	37°C	1.07	8.9	51%	2	0	0	25	1,030	1.6	1,900	3,000	400	HM, PA, PSA	Pure aromatic resin, excellent color and stability
TECKREZ®	Y-100	100°C	54°C	1.07	8.9	52%	2	0	0	25	1,260	1.7	2,400	9,500	1,000	HM, PA, PSA	Pure aromatic resin, excellent color and stability
TECKREZ®	Y-120	120°C	72°C	1.07	8.9	53%	2	0	0	25	3,400	2.4	6,900	>100,000	3,100	HM, PSA, SLT	Pure aromatic resin, excellent color and stability
TECKREZ®	Y-140	140°C	90°C	1.07	8.9	54%	4	0	0	25	5,140	2.8	9,000	>100,000	9,000	HM, PSA, SLT	Pure aromatic resin, excellent color and stability
HYDROGENATED DCPD																	
TECKREZ®	CH-1100	100°C	46°C	1.01	8.4	0		0	0	1	750	1.5	1,230	800	300	HM, PSA	For hot melt adhesives and pressure sensitives
TECKREZ®	CH-1130	130°C	67°C	1.01	8.4	0		0	0	1	820	1.6	1,500	>100,000	2,500	HM, PC	High-melt and metallocenes
HYDROGENATED C9																	
TECKREZ®	HF-100	100°C	45°C	1.01	8.4	0%	1	0	0	<1	640	1.3	900	6,500	350	HM, PSA, SLT, WC	Excellent UV, aging stability
TECKREZ®	HF-110	112°C	61°C	1.01	8.4	0%	1	0	0	<1	800	1.5	1,120	24,000	1,500	HM	Hydrogenated C9.
TECKREZ®	HF-130	130°C	69°C	1.01	8.4	0%	1	0	0	<1	770	1.3	1,150	>100,000	4,000	HM, SLT, WC	Excellent UV, aging stability
TECKREZ®	HM-10	8°C	-33°C	0.92	7.7	3%	1	0	0	1	280	1.1	300	4,900*	<10	PSA	Styrenated for water-white EVA hot melts *at 30°C
TECKREZ®	HM-900	90°C	37°C	1.01	8.4	6%	1	0	0	1	580	1.4	800	4,000	200	HM, PSA	Styrenated for water-white EVA hot melts
TECKREZ®	HM-1000	100°C	47°C	1.01	8.4	6%	1	0	0	1	680	1.4	930	6,000	300	HM, PSA	Styrenated for water-white EVA hot melts
TECKREZ®	HM-1100	110°C	55°C	1.01	8.4	4%	1	0	0	1	700	1.4	1,050	13,000	700	HM, PSA	Styrenated for water-white EVA hot melts
TECKREZ®	HM-1300	130°C	75°C	1.01	8.4	1.5%	1	0	0	1	800	1.4	1,200	>100,000	4,200	HM	Narrow MWD, metallocene polyolefins
TECKREZ®	HM-1400	140°C	82°C	1.01	8.4	1%	1	0	0	1	840	1.4	1,320	>100,000	9,500	HM, PLC	High melt viscosity, narrow MWD



ACRYLIC RESINS SUMMARY

Trade Name	Grade	Base Composition	Typical Properties *			Viscosity in Various Solvents **								Comments/Applications	
			Tg	Mw	A.V.	Alcohol		Esters			Aromatic		Ketone		
						Ethanol	Methanol	Methyl Acetate	Ethyl Acetate	Isopropyl Acetate	Toluene	Xylene	Acetone		MEK
ACRYLIC RESINS															
TECKSTAR™	BN 070	MMA/BMA	50	140,000	<1	I.S.	I.S.	1630	1620	1,900	830	1,220	640	490	Road marking, Excellent adhesion
TECKSTAR™	BA122	MMA/BMA	60	60,000	4	I.S.	I.S.	290	410	610	310	480	150	140	General purpose grade. Fast solvent release. Acid value increases adhesion and pigment dispersion - Gravure ink, Printing ink, Marine & container coating, Road marking paint concrete & metal coating
TECKSTAR™	BA123	MMA/BMA	60	60,000	3.5	I.S.	I.S.	300	410	660	350	555	150	140	General purpose grade. Higher viscosity than BA122 - Gravure ink, Printing ink, Marine & container coating, Road marking paint concrete & metal coating
TECKSTAR™	BA124	MMA/BMA	60	60,000	8	I.S.	I.S.	230	270	-	465	635	100	105	Road marking, Fast solvent release. Excellent adhesion
TECKSTAR™	BA126	MMA/BMA	60	50,000	9.5	I.S.	I.S.	170	180	230	450	630	80	90	Road marking, Fast solvent release. Excellent adhesion
TECKSTAR™	BA140	MMA/EA	55	100,000	3.5	I.S.	I.S.	170 ³⁰	2,340	330 ³⁰	2,300	75 ²⁰	490	610	Very good for concrete coating - Clear coating of interior & exterior floors & driveway
TECKSTAR™	BA141	MMA/BMA	55	100,000	3	I.S.	I.S.	100 ³⁰	1,150	190 ³⁰	830	1,400	360	350	Lower viscosity than BA140. - Clear coating of interior & exterior concrete floors & driveway
TECKSTAR™	BA410	MMA/BMA	80	40,000	3.5	I.S.	I.S.	315	445	790	340	600	160	160	Harder and lower Mw than BA123. Fast Dry. - Concrete sealer, Traffic paint, Gravure ink, Clear finishes for furniture plastics
TECKSTAR™	BA525	MMA/EA	90	70,000	16	I.S.	I.S.	200 ³⁰	280 ³⁰	560	130 ²⁰	P.S.	970	1,050	Low profile additive for SMC/BMC
TECKSTAR™	BA531	MMA	105	100,000	2	I.S.	I.S.	770 ³⁰	80 ²⁰	3,130 ³⁰	8,500	90 ²⁰	7,280	6600	Hard coating resin with excellent durability and weather resistance - Protective coating for gravure ink
TECKSTAR™	BA611	MMA	105	40,000	2	I.S.	I.S.	110 ³⁰	1,600	360 ³⁰	1,070	50 ²⁰	530	520	General purpose hard resin having improved solubility - Paint, Gravure ink, off-set ink, Calendaring varnish, PVC/ASA modifier
TECKSTAR™	BN600	MMA	100	20,000	<1	I.S.	I.S.	170	240	440	210	70 ³⁰	80	95	Excellent flowability with good hardness - Additive for reactive syrup, Modifier for various thermoplastic polymers
TECKSTAR™	BN640	MMA	105	100,000	<1	I.S.	I.S.	2200 ³⁰	3380 ³⁰	-	1030 ³⁰	P.S.	1650 ³⁰	450 ³⁰	General purpose hard coating resin - Plastic coating, Protective coating
TECKSTAR™	BA720	MMA	115	50,000	2	I.S.	I.S.	270 ³⁰	440 ³⁰	1,460 ³⁰	2,430	60 ²⁰	155 ³⁰	2,130	The hardest coating resin with low Mw - Protective coating for gravure ink, Plastic coating
TECKSTAR™	BA840	MMA	120	120,000	2	I.S.	I.S.	170 ³⁰	360 ³⁰	-	160 ²⁰	P.S.	220 ²⁰	130 ²⁰	Top coating, Hard resin, Excellent chemical resistance and weatherability

Typical Properties *

Tg : Glass transition temperature (°C)
Mw : Molecular weight (g/mol)
A.V : Acid value (mg KOH/g)

Viscosity in Various Solvents ** (Test Method : Solubility 20wt% resin at room temperature)

Values are Brookfield viscosity (cP), at 23°C of a 40% solids solutions, except as noted
Superscript indicates % solids
I.S. : Insoluble. P.S. : Partially soluble

DISPERSIONS

Trade Name	C Grades	% Solids	Soft. Pt. R&B*	Neat Color*	pH	Acid Value*	Viscosity cps at		Applications	Description
							25°C	57°C		
ROSIN RESIN DISPERSIONS										
TECKROS®	Q27	90	27°C	7	9.1	45	N/A	4,000	PSA, CF, CC	High solids, low SP, dispersible tackifier
TECKROS®	Q25	60	25°C	5	7	15	5,000	N/A	PSA, CF, CC	Formulated for aqueous adhesive
TECKROS®	Q85	60	85°C	5	7	10	5,000	N/A	PSA, CF, CC	Formulated for aqueous adhesive

*Based on neat rosin ester

Statements and recommendations are for guidance purposes only, Teckrez, LLC makes no guarantees regarding performance in actual adhesive or other formulated products. Responsibility for formulated performance is solely that of the user.