



TECKREZ

Resin Product Guide

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BIO-BASED RESIN 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	Description
		R&B	Temp. (Tg)	50T	Neat			Mw	PD	Mz	40°C	125°C	177°C				
ROSIN ESTERS																	
TECKROS™	RL5	Liquid	-26°C	4	5	65	10	600	1.2	750	4,000	N/A	<10	8.8	1.05	CF, PI, PSA	Liquid, high acid number
TECKROS™	RL10	Liquid	-22°C	4	6	15	50	650	1.2	800	10,000	N/A	<10	8.8	1.05	CF, PSA	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Ultra hydrogenated pentaerythritol ester
TERPENE PHENOLICS																	
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	Lower OH terpene phenol
TECKREZ®	TP105	105°C	58°C	7	9	1.5	60	870	1.3	1,100	N/A	>50,000	200	9.2	1.10	CC, HM, PSA	Lower OH terpene phenol
TECKREZ®	TP115	115°C	66°C	7	9	1.5	60	950	1.4	1,200	N/A	>50,000	400	9.2	1.10	CC, HM, PSA	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	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	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	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	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	Modified rosin, crystallization-resistant



HYDROCARBON RESIN SUMMARY

Trade Name	Grade	Soft. Point R&B	Glass Transition Temp. (Tg)	SG	Bulk Density	Aromatic H	Color			Iodine Value	Molecular Weight			Viscosity cps at		Applications	Description	
							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	900	1.6	2,200	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®	C95-109L	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®	C95-119L	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®	C900P	102°C	46°C	1.07	8.9	41%		8	10	25	1,200	1.5	1,850	50,000	1,500	HM, PC	Darker grade for coatings	
TECKREZ®	C920HM	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	18000	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-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®	HA-100	100°C	45°C	1.01	8.4	8%		1	0	0	5	700	1.4	950	5,800	280	HM, PSA	Higher styrene, designed for SBS
TECKREZ®	HA-120	120°C	61°C	1.01	8.4	9%		1	0	0	5	900	1.4	1,150	24,000	1,200	HM, PSA	Higher styrene, higher SP designed for SBS
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-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™	BA030	MMA/EA	38	80,000	2	I.S.	I.S.	100 ³⁰	105 ³⁰	810	700	170 ³⁰	250	260	General purpose. Very soft. Gravure ink, Industrial paint
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	61	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	116	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	125,000	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 **

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

(Test Method : Solubility 20wt% resin at room temperature)



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



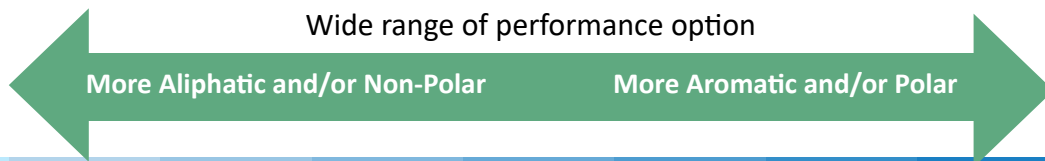
TECKREZ® Product Categories:



- TECKROS™ Product name for rosin resins, made from pine tree derivatives
- TECKREZ® Product name for our hydrocarbon resins, all made from petroleum feedstocks
- TECKSTAR™ Product name for our acrylic resins, all made from acrylic and methacrylic monomers
- MONTECK™ Product name for our monomer products, including acrylate, methacrylate, acrylamide and other specialty monomers

TACKIFIER COMPATIBILITY

Wide range of performance option



Poly EB	Poly Olefin	Poly Isoprene	EVA	Poly Butadiene	Poly Chloroprene	Poly Styrene	Poly Vinyl Acetate	Poly Acrylic
Hydrogenated HC Teckrez HF, CH								
	Hydrogenated HC Teckrez HM, HA							
C5 HC Teckrez C5								
	C5/C9 HC Teckrez C59							
		C9/C5 HC Teckrez C95						
		Pure Monomer & C9 HC Teckrez C9, Y						
		Rosin Esters Teckros R						
		Polymerized/Upgraded Rosins Teckros D, NC						
		Terpene Phenolics Teckrez TP						
		Hydrogenated Rosins Teckros H, HXL						

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

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