Contributors

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HE R CULES® SYNTHETIC 고 ESINS typical properties chart

TYPICAL PROPERTIES OF HERCULES SYNTHETIC RESINS

The chart below presents those physical and chemical properties which are of prime importance to the many and uses for Hercules synthetic resirs. The figures shown are overage values for typical samples of these resirs: they sh not be construed as specifications. Information on current sales specifications, suggested uses, and established applica-Kens technology is given in product data sheets, bulletins, and other technical literature which are available an request.

	Principal uses are identified as follows: A -Adl L-Lea				G - Chewing Gam P - Paints and Varnishes				1-leks O - Organisals and Plasticals				
Product				Acid Namber	Color 1950A Rusin Scale	Sefering Point of		Vicenity and Colo					
	Description		Principal Uses			Realson Ma	er Selles, meskes Rethod	S. Berry	Talunat	Viscosity, Gardeen- Ralak ar 25° C.	Calue, Gardinae	Reight at dat at 15 °C	
ABALYN*	methyl ester of rosin			•	7		1	poid	100		11	6.5	8.6
ABITOL	technical hydroobietyl alcohol			<i>.</i>	0.0			annie			-	<1	8.4
ABITOL-90X	Abital, 90% solids in sylene				0.3			quid	90	xylene	2.23	<1	8.3
CELLOLYN" 21	phthalate exter of technical hydroabietyl alcohol					-	63	145	75	toluene		4	8.7
CELLOLYN 95-80T	technical hydroabietyl alcahol derived alkyd, 80% solids in toluene		î		-		54	129	80	Soluene	5	3.5	8.5
CELLOLYN 98-80T	technical hydroabietyl alcohol derived alkyd, 80% solids in tolvene		8		18		74	165	80	toluene	Y-Z	3.5	8.8
CELLOLYN 102	modified pentoerythritol exter of rosin	1	Р.		35	WG.	133	271	60	toluene	3		9.4
CELLOLYN 104	internally plasticized pentaerythrital ester of rasin	1			31	N	100	212	60	toluene	1.1	P	9.4
CELLOLTN 502-60X	nandrying alkyd restn, 60% solids in sylene	1			-		44.67 co.50	en. 153 en. 122	60	sylene	22 V	2.5	8.7
CELLOLYN 515-60X CELLOLYN 525-60X	nondrying alkyd resin, 60% salids in xylene nandrying alkyd resin, 60% salids in xylene	1			7		71	160	60	xylene xylene	Y.Z	2	8.7
CELLOLYN 582-60X	nondrying alkyd resin, 60% solids in xylene	1			3		ce. 50	100.122	60	xylene	Y	1.5	8.5
CELLOLYN 604-60X	axidizing alkyd resin, 60% salids in xylene	÷.			10	2	73	163	80	xylene	Y	5	8.3
ESTER GUM 8D	glyperal enter of rosin purified by shearn distillation	6			7	wo	91	196	60	mineral		8.5	8.9
ESTER GUM BL	glyceral ester of rasin		•		7	WG	91	196	60	mineral spirits	в	8.5	8.9
FLEXALYN" BOM	diantrylana glycol aster of rosin, 80% solids in mineral spirits					-	44	111	80	mineral spirits	U	*	8.4
HERCOLYN® D	hydrogenated methyl ester of rosis purified by seam distillation	0 0			7	-	liquid		100	-	22-23	2.5	8.5
LEWISOL® 7	glycerol enter of modified rosin	1			8	ĸ	168	334	50	low-KB hydrocarbon	w	11.5	9.0
LEWISOL 28	malaic modified rosin ester	ь.			36	WG	141	286	60	toluene	1.1	8.5	9.4
NEOLYN* 20	rosin-derived elastomeric resin	1	٤.	0	10	N	73	163	100	- 1	3111	-	9.8
NEOLYN 23-751	rasin-derived elastomeric resin, 75% solids in toluene	1		0	5		72	162	75	solvene	U-V	10.5	8.9
NEOLYN 35D	rosin-derived elastomeric resin			0		N	87	189	75	toluene	23		9.8
NEOLYN 40	rosin-derived elastomeric resin		1	0	12	N	bai	samic	100		2.2		9.7
NEOLYN 72	rasin-derived alkyd type resin	1.			5	N	107	225	-				10.2
NEOLYN 91	rosin-derived ofkyd-type resin					N	117	243	35	disooctyl phebalate	21-22	7.5	9,4
NEOLYN 223	rosin derived elastometic resin, 50% solids in discoctyl phtholote	L		0	4		72	162	50	disooctyl phrhalate	Z.4	9.5	8.9
PE TETRASTEARATE	pentaerythrital exter of stearic acid	£.			1	-	67	153	50	solvene	-	4.	8.1
PENTALYN" A	peviderythritol exter of rosin		1	•	12	N	-111	232	60	minarol spirits	0	9	8.9
PENTALYN A-60M	Pentalyn A. 60% solids in mineral spirits	*	•	•	7	-	111	232	60	minarol spirits	G		7.9
PENTALYN 825	phenalic modified resin				34	N	116	241	60	solvene	0	10.5	9.7
PENTALYN 856	pennerythritol-derived, heat-reactive resin intermediate	1			132	N	122	234			-	-	9.7
PENTALYN C	pentuerythritol exter of polymerized rosin	1	'		14	M	135	275	60	minaral spirits	5	9.5	9.1
PENTALYN G	modified permanythrital ester of rasin	17	1	•	14	WG	135	275	80	minaral spirits	v	9.5	9,1
PENTALYN H	persperythritid ester of hydrogenated rasin	•			13	N	104	219	60	spirits	c	-	8.9

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D pentaerythritol ester of dimeric resin acids PENTALYN K modified pentaerythritol ester of rosin PENTALYN X alcohol- and alkali-saluble resin PENTALYN 255 phanolic-modified pentoerythritol ester of rosin PENTALYN 802A alcohol-soluble modified exter of rosin phenolic-modified pentaerythrital exter of rosin alcohol-soluble modified exter of rosin PENTALYN 830 PENTALYN 833 PENTALYN 856 PENTALYN 860 pentaerythritol exter of dimeric resin acids resinous terperie polybasis acid alkyd derivod from terperie polybasis acid, 20% salids in ethanal⁽²⁾ PETREX® ACID PETREX 55-70A alkyd derived from terpene polybasic acid. 75% solids in toluene PETREX 7-75T ethylene glycol ester of polymerized rosin POLY-PALE® ESTER 1 plycerol enter of polymerized rosin POLY-PALE ESTER 10 STAVABLITE ESTER® 3 triathylene glycol ester of hydrogenated rosin glyceral exter of hydrogenated rasis purified by steam distillation STAYBELITE ESTER 5 glyseral ever of hydrogenated rosin

STAYBELITE ESTER 10 VINSOL" ESTER OUM plycerol enter of a dark hydrocarbon insoluble pine wood resin

*Adamatian on spatialized are (1) Brackfuld, prices of 160°C

tran Merculas Indexinal represent (3) Brankfield, patient at 1311°C

(3) Permits 34 deserved shabel.

(4) Southed Designation of Auto-C.

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The resins listed herein have in common one distinctive feature —all are produced under rigid control for high, uniform quality. This listing of characterizing data includes resins that vary from liquids to high-melting solids, from dark to water-white in color, and from neutral and inert to high acid number and reactive resin intermediates.

Only the largest volume fields of application – adhesives, chewing gum, inks, paints and varnishes, and lacquers – are indicated on the chart, since the range of properties available in the Hercules family of synthetic resins is so broad that collectively they have an almost endless variety of specific applications.

Certain Hercules synthetic resins are cleared, or are in the process of being cleared, for use in accordance with Food and Drug Administration requirements. Information on the current FDA status of these resins is available upon request.

In addition to the resins listed on this chart, improved forms and new synthetic resins are being developed constantly, some of which are close to the commercial stage. Hercules Pine & Paper Chemicals Department also offers a broad range of rosins, modified rosins, stabilized rosins, and related resins. Properties of these products are charted in a companion booklet, Form 900-49. If this is not already in your files, consult your Hercules representative.



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The facts stated and the recommendations made in this chart are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application for our products nor anticipate every variation encountered in manufacturing equipment and methods. For the same reason, the products discussed are sold without warranty, express or implied, and on the condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent.

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