

Piccotac™ 8595 hydrocarbon resin

Piccotac™ 8595 hydrocarbon resin is a low molecular weight, aromatic-modified C5 hydrocarbon resin developed for the hot-melt adhesives industry. Table 1 shows the typical properties of Piccotac™ 8595.

Table 1
Piccotac™ 8595 Typical Properties

MMAP (°C)	DACP (°C)	RBSP (°C)	Mn (kDa)	Mw (kDa)	Mz (kDa)	PDI	Gardner Color
81	38	95	0.9	1.7	3.2	1.9	3

Advantages

Piccotac™ 8595 hydrocarbon resin enables customers to

- Lower formulation cost by incorporating polybutadiene.
- Extend raw materials by combining SIS, SBS and SIBS.
- Rapidly change formulations in the event of supply issues with SIS.
- Devise new formulations and products.
- Formulate with APO and EVA packaging adhesives.

This low-odor, low-color tackifier is excellent for formulations (SIS/SBS blends, SIBS and SIBS/SBS blends) that utilize lower-cost polybutadiene, as well as EVAs and APOs for packaging adhesives. Figure 1 shows that reducing the MMAP and DACP increases solubility in polybutadiene. Improved compatibility of Piccotac™ 8595 with polybutadiene is due to the low molecular weight and aromatic modification.

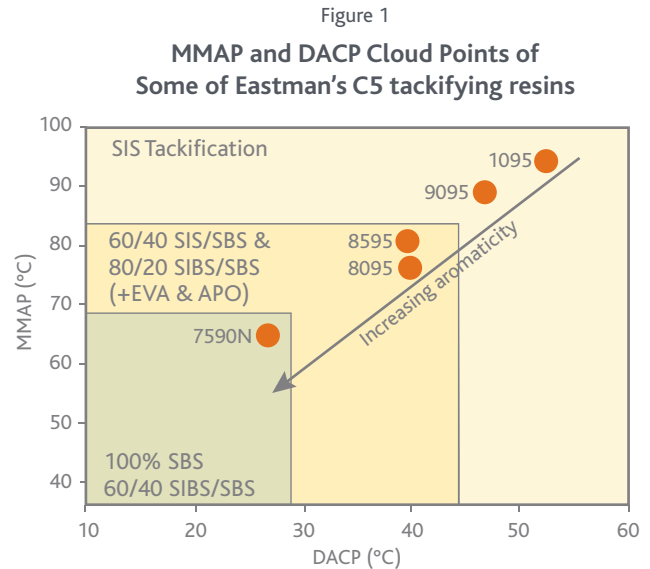


Table 2 compares the adhesive properties of a general purpose pressure-sensitive adhesive tape formulation based on styrene-isoprene-styrene against several other formulations based on polybutadiene.

Contact your Eastman representative today or visit www.tackifier.com for more information on the advantages of Piccotac™ 8595.

Table 2
Adhesion Data for Formulations Based on Piccotac™ 8595 Resin

Formulation is 100 phr rubber, 125 phr resin and 25 phr oil		SIS		80/20 SIS/SBS		60/40 SIS/SBS		SIBS		80/20 SIBS/SBS	
		Initial	Aged	Initial	Aged	Initial	Aged	Initial	Aged	Initial	Aged
Peel adhesion on steel (lbs/in)	avg.	4.6	4.1	4.5	3.7	4.7	5.3	4.2	4.0	4.2	4.3
	std dev	0.3	0.4	0.5	0.2	0.6	0.4	0.5	0.2	0.7	0.3
Hold power RT 0.5" sq on steel (1 kg) (min)	avg.	1,600	1,100	2,400	2,500	3,300	2,800	600	700	2,600	2,100
	std dev	200	100	400	800	1,500	1,200	100	300	300	900
Rolling ball track (cm)	avg.	1.2	1.3	4.6	3.7	2.9	3.8	0.9	1.6	4.6	4.9
	std dev	0.7	0.3	2.2	2.2	1.4	1.7	0.4	0.6	1.3	2.9

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