

DRT Terpene phenolic resins

PRODUCT	Softening point (°C)	Gardner Color	Hydroxyl value	ISMT ⁽²⁾	MMAp ⁽³⁾	Mn	Mz	Mw	Mz/Mn
DERTOPHENE T	95	4	20 – 50	61	26	500	900-1200	500-800	1.30
DERTOPHENE T 105	105	4	20 – 60	65	26	500	900-1200	500-800	1.30
DERTOPHENE T 110	110	4	40 – 60	68	26	500	900-1200	500-800	1.20
DERTOPHENE T 115	120	5	40 – 60	69	26	500	900-1200	500-800	1.50
DERTOPHENE T 135	134	5	20 – 50	69	25	700	1000 - 1400	600 - 1000	1.30
DERTOPHENE H 150	118	6	135 – 150	> 95	-5	500	900 -1200	500-800	1.40
DERTOPHENE 1510	147	6 ⁽¹⁾	95 – 120	88	-2	800	1200 - 1500	800 - 1200	1.30

(1) Neat resin

(2) ISTM is an indication of the polarity of the resin (High ISTM → high polarity)

(3) MMAp is a indication of the aromaticity / aliphaticity of the resin (High MMAp → high aliphaticity)

DRT Terpene phenolic resins possible end uses

PRODUCT	VAE HMA	SBC HMA	Acrylic Solvent Adhesives	CR Solvent Adhesives	SBR/SBS/NR solvent Adhesives	Plastic componing	Printing inks	Comments
DERTOPHENE T	X	X	X		X			Improves hot tack, flexibility, low temperature adhesion and specific adhesion of VAE HMA
DERTOPHENE T 105	X	X	X		X			Low VOC, higher heat stability
DERTOPHENE T 110	X		X	X	X			Mainly used in acrylic based tapes
DERTOPHENE T 115	X		X	X	X			Higher cohesive properties. Used in SBC HMA (tapes).
DERTOPHENE T 135	X		X	X				Highest softening point for a "low hydroxyl number"
DERTOPHENE H 150	X					X	X	Highest polarity. Specific adhesion (VAE HM)
DERTOPHENE 1510	X					X		Higher softening point for a "high hydroxyl number".

VAE HMA : Vinyl acetate ethylene hot melt adhesives
 SBC HMA : Styrene bloc copolymer hot melt adhesives
 CR : Polychloroprene
 SBR : Styrene butadiene styrene (block copolymer)
 NR : Natural rubber