UEF Styrene Emission Rate Equations - Open Molding Processes
(lb styrene / lb of resin or gelcoat)

Material	Process	with P^2 Modifier	UEF Equations	
			%Styrene less than 33%	%Styrene equal to or greater than 33%
Resin	Manual		(0.126 x %Styrene)	(0.286 x %Styrene - 0.0529)
		Vapor-suppressed resin	(1 - (0.5 x VSE)) x (0.126 x %Styrene)	(1 - (0.5 x VSE)) x (0.286 x %Styrene - 0.0529)
		Covered cure after roll-out	0.80 x (0.126 x %Styrene)	0.80 x (0.286 x %Styrene - 0.0529)
		Covered cure before roll-out	0.50 x (0.126 x %Styrene)	0.50 x (0.286 x %Styrene - 0.0529)
	Mechanical		(0.169 x %Styrene)	(0.714 x %Styrene - 0.180)
		Vapor-suppressed resin	(1 - (0.45 x VSE)) x (0.169 x %Styrene)	(1 - (0.45 x VSE)) x (0.714 x %Styrene - 0.180)
		Covered cure after roll-out	0.85 x (0.169 x %Styrene)	0.85 x (0.714 x %Styrene - 0.180)
		Covered cure before roll-out	0.55 x (0.169 x %Styrene)	0.55 x (0.714 x %Styrene - 0.180)
	Mechanical Non-atomized		(0.107 x %Styrene)	(0.157 x %Styrene - 0.0165)
		Vapor-suppressed resin	(1 - (0.45 x VSE)) x (0.107 x %Styrene)	(1 - (0.45 x VSE)) x (0.157 x %Styrene - 0.0165)
		Covered cure after roll-out	0.85 x (0.107 x %Styrene)	0.85 x (0.157 x %Styrene - 0.0165)
		Covered cure before roll-out	0.55 x (0.107 x %Styrene)	0.55 x (0.157 x %Styrene - 0.0165)
	Filament Winding		(0.184 x %Styrene)	(0.2746 x %Styrene - 0.0298)
		Vapor-suppressed resin	(0.120 x %Styrene)	0.65 x (0.2746 x %Styrene - 0.0298)
Gelcoat	Atomized		(0.445 x %Styrene)	(1.036 x %Styrene - 0.195)
	Lesser Atomized		%Styrene less than 30%	%Styrene equal to or greater than 30%
			(0.323 x %Styrene)	(0.5842 x %Styrene - 0.07835)
	Non-atomized		%Styrene less than 19%	%Styrene equal to or greater than 19%
			(0.185 x %Styrene)	(1.036 x %Styrene - 0.195)

VSE = Vapor Suppressant Effectiveness - deterimined for each material/suppressant combination using ACMA VSE Test Procedure
P^2 Modifier = for Pollution Prevention technique
%Styrene is expessed as a ratio in these equations. For example, 34% is entered as 0.34.

UEF Non-Styrene Emission Rate Equations - Open Molding
(lb monomer / lb of resin or gelcoat)

Material	Process	UEF Equation
Alpha Methyl Styrene/Vinyl Toulene isomers (AMS/VT)		
Resin	Mechanical Non-atomized	0.55 x [styrene eq above]
Methyl Methacrylate (MMA)		
Gelcoat	Atomized	(0.75 x %MMA)

MUTLIPLY ALL CALCULATED VALUES BY 2000 TO GET LB/TON FACTORS