

Name		CS018		CS019		CS020		CS021	
Date		111020		111020		111020		111020	
Seed dispersion	PS sphere suspension	15.00 <i>mℓ</i>	B46	15.00 <i>mℓ</i>	B46	15.00 <i>mℓ</i>	B46	15.00 <i>mℓ</i>	B46
	Water	12.00 <i>mℓ</i>		12.00 <i>mℓ</i>		12.00 <i>mℓ</i>		12.00 <i>mℓ</i>	
Monomers	1st monomer	1.61 <i>mℓ</i>	Styrene	1.61 <i>mℓ</i>	Styrene	1.61 <i>mℓ</i>	Styrene	1.61 <i>mℓ</i>	Styrene
	2nd monomer	0.18 <i>mℓ</i>	TMSPA (new)	0.18 <i>mℓ</i>	TMSPA (new)	0.18 <i>mℓ</i>	TMSPA (old)	0.18 <i>mℓ</i>	TMSPA (new)
	3rd monomer								
Initiator	Initiator	0.009 gr	AIBN (new)	0.009 gr	AIBN (new)	0.009 gr	AIBN (new)	0.009 gr	AIBN (old)
Reaction Conditions	Temperature	70 C		70 C		70 C		70 C	
	Tumbling speed	300 RPM		300 RPM		300 RPM		300 RPM	
Factors determining recipe	Volume fraction of PS sphere suspension	0.119	B46	0.119	B46	0.119	B46	0.119	B46
	Total monomer swelling Ratio (vol/vol)	1.00		1.00		1.00		1.00	
	Ratio of TMSPA to total new monomer (vol/vol)	0.10		0.10		0.10		0.10	
Calculations	Theoretical yield volume fraction	0.117		0.117		0.117		0.117	
Monomer solution recipe	Styrene	3.53 <i>mℓ</i>				styrene	1.76715	styrene	1.76715
	TMSPA (new)	0.39 <i>mℓ</i>				TMSPA (old)	0.19635	TMSPA (new)	0.19635
	AIBN (new)	0.020 gr				AIBN (new)	0.0098175	AIBN (old)	0.0098175