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PART 1:

Journal Name:	Physical Review & Research International
Manuscript Number:	MS: 2012 PRRI 2808
Title of the Manuscript:	Spectroscopic properties of HALS doped polycarbonate by fluorescence spectroscopy

<u>General guideline for Peer Review process is available in this link:</u> (http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline)

• This form has total 9 parts. Kindly note that you should use all the parts of this review form.

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PART 2: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	Salh et al describes the spectroscopic properties PC and of hindered amine stabilizers doped PC. The author has nicely combined the literature on this topic and has included some interesting findings on the spectroscopic property changes during processing conditions of PC. Overall, the manuscript is suitable for PRRI and would be appreciated by the readers of this journal and I therefore recommend publication after minor revisions noted below.	
Minor REVISION comments	 The interesting aspect of this paper is the polymer breakdown/mechanical degradation caused during extrusion and the changes in optical properties that is brought in due to extrusion. However it would be nice if the author further clarify the proposed mechanism of distortion of polymer chain that causes new absorption and emission band. Are there any precendent literature on this behaviour? The author should include the chemical structures of Tinuvin 770, 123. It would help the readers to understand the difference between the two additives and the spectroscopic changes 	

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	3.	it brings along. Figure 3 is very confusing. I thought that the increasing concentration of 770 increases the absorption spectrum but for some reason the 0.2% loading seems to have broader absorption tail and increased red shifted absorption. Why?	
	4.	Formation of radicals has been clained by the author for decomposition (lines 181-185). However I don't understand if these are generated by thermal (due to processing conditions) or due to photodecomposition. More clarification on the mechanism is needed.	
Optional/General comments			

Reviewer Details:

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