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Perfluoroalkyl end-functionalized polystyrene show lower glass transition temperatures. DSC and optical transmission studies

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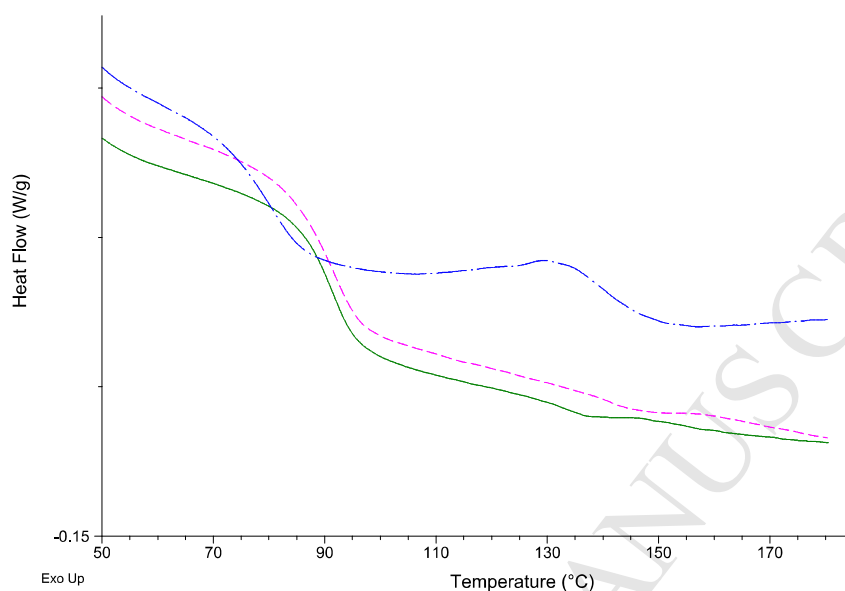
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DSC thermograms of PSC13 polymers with varying molecular weights. PSC13-10k(Blue), PSC13-15k (Green), PSC13-30k(Pink). The data indicate decreases in glass-transition temperature that increase with increasing perfluorocarbon concentrations and chain lengths. The presence of an endotherm at 130 °C hints at semicrystalline behavior in the case of PSC13-10k only.

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