

Separation and Characterization of Cyclic
Tris (ethylene Terephthalate) from Poly(ethylene
Terephthalate)

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Cyclic tris (ethylene terephthalate) (CTET) was separated from poly(ethylene terephthalate) by a solvent extraction-recrystallization method. The separated CTET was characterized by high performance liquid chromatography, nuclear magnetic resonance spectroscopy, differential scanning calorimetry(DSC), and X-ray diffractiometry. It was found that the CTET recrystallized from dimethylformamide was different in lattice spacings from its quenched product and the latter displayed double melting behavior during the DSC scanning.