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Solid-state polymerization of methylenephthalide

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Abstract

The crystal unit cell parameters of poly(3-methylenephthalide) at 100 and 298 K are established by X-ray diffraction analysis. It is shown that the solid state polymerization of methylenephthalide near its melting point, leading to formation of a high molecular polymethylenephthalide with high yield, is in principal possible.