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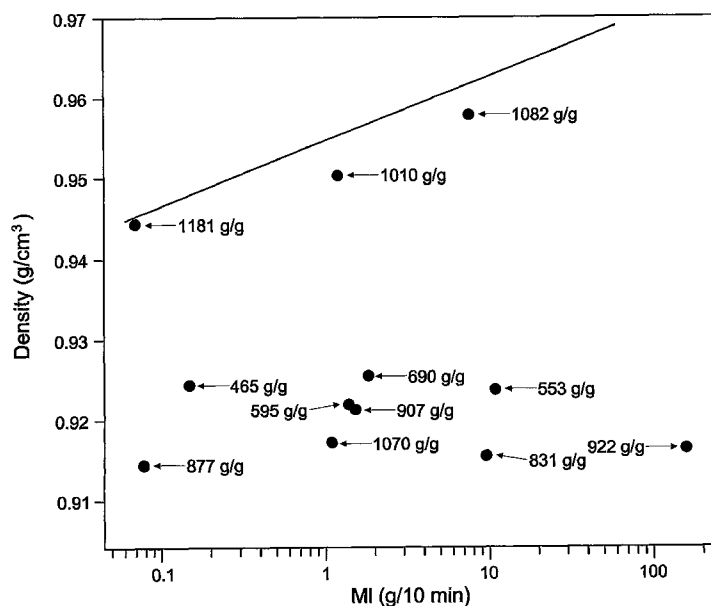
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(54) Title: SINGLE CATALYST LOW, MEDIUM AND HIGH DENSITY POLYETHYLENES



(57) Abstract: A method of polymerizing olefins comprising combining in one embodiment ethylene and optionally one or more α -olefins with a catalyst composition in a continuous polymerization reactor at a pressure of less than 10,000 kPa; wherein the catalyst composition comprises a hafnocene; and isolating a polyethylene having a density in the range of from 0.930 to 0.975 g/cm³. Also provided is a method of transitioning a continuous polymerization reactor from production of a low density polyethylene to a medium or high density polyethylene. Also provided is a medium to high density polyethylene suitable for injection or rotomolding applications. Also provided is a single catalyst composition suitable for such needs.

WO 2006/138007 A1



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