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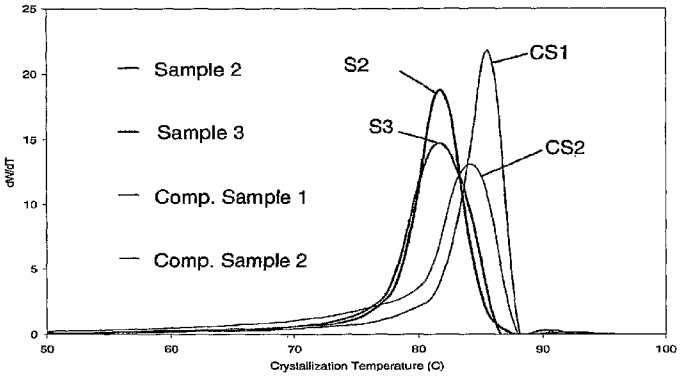
(54) Title: POLYMERS MADE WITH METALLOCENE CATALYSTS, FOR USE IN ROTOMOLDING AND INJECTION MOLDING PRODUCTS



(57) Abstract: Ethylene alpha-olefin copolymers formed by contacting at least one supported metallocene catalyst, ethylene, and an alpha-olefin in a gas phase reactor are disclosed. In some embodiments, the polymer may have: a density of between 0.890 and 0.970 g/cc; a melt index of between 0.7 and 200 dg/min; a melt index ratio of less than 30; an ESCR value of greater than 1000 hours; and a 1% secant modulus of greater than 75,000 psi. In other embodiments, the polymer may have: a density of between 0.930 g/cc and 0.970 g/cc; a melt index of between 10 dg/min and 200 dg/min; a melt index ratio of between 10 and 25; a part weight of greater than 3 g and a part length of greater than 38 cm in a spiral flow test, and; a zero shear viscosity of less than 150 Pas. Processes to produce these polymers are also disclosed.

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