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(54) Title: PROCESSES FOR MAKING PROPYLENE-BASED COPOLYMERS HAVING BROAD CDS AND MWDS

(57) Abstract: Processes for making propylene-based copolymers having broad molecular weight distributions and broad comonomer distributions using a single tubular reactor. Processes for making a propylene-based copolymer can include introducing propylene and at least one other olefin comonomer to a tubular reactor to produce a propylene-based copolymer having a broad comonomer distribution, a Mw of about 10 kg/mol to about 2,000 kg/mol, and a MWD of about 2.0 to about 10.0. The tubular reactor can include one or more heat exchanger elements, preferably a spiral heat exchanger. Propylene-based copolymer compositions can include propylene derived units and at least one other comonomer derived units, wherein the copolymer compositions have a broad comonomer distribution, a Mw of about 10 kg/mol to about 2,000 kg/mol, and a MWD of about 2.0 to about 10.0. Such compositions can have broad orthogonal comonomer distributions.