

ABSTRACT

Functionalized C_{4 to 5} Olefin Polymers and Lubricant Compositions Containing Such

This disclosure relates to functionalized polymers and compositions comprising such where the functionalized polymers comprise amide, imide, and/or ester functionalized partially or fully saturated polymer comprising C₄₋₅ olefins having: i) an Mw/Mn of less than 2, ii) a Functionality Distribution (Fd) value of 3.5 or less, and iii) an Mn of 10,000 g/mol or more (GPC-PS) of the polymer prior to functionalization, provided that, if the polymer prior to functionalization is a copolymer of isoprene and butadiene, then the Mn of the copolymer is greater than 25,000 g/mol (GPC-PS).

Figure 1