

HIGH MELT STRENGTH POLYPROPYLENE AND EXTRUSION PROCESS FOR PRESERVING MELT STRENGTH

ABSTRACT

A method of melt blending a polypropylene and the melt blended polypropylene therefrom, comprising providing a base-polypropylene having a MFR of less than 15 g/10 min and a molecular weight distribution (M_w/M_n) within the range from 5 to 16, and comprising hindered phenol and phosphorous-type antioxidants, and within the range from 5 ppm to 4000 ppm of an alkyl radical scavenger relative to the total weight of the components to form a melt blended polypropylene; melt blending the melt blended polypropylene at a temperature of at least 210°C; and isolating a melt blended, melt blended polypropylene.

(FIG. 1)