

عنوان مقاله:

Moisture Dependent Physical Properties of Canola Seeds

محل انتشار:

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خلاصه مقاله:

Physical properties of four common Iranian varieties of canola seeds (Hyola, Okapi, Orient and SLM) were evaluated as a function of their moisture contents. The average seed length and thousand seed mass varied linearly from 1.9Y& to Y.YFY mm and from Y... to F.AF g, respectively. The average diameter, geometric mean diameter, and sphericity varied non-linearly from 1.FYA to 1.911 mm, 1.5YA to Y.oY mm and from o.AY to o.9T, re-spectively in a moisture content range of Δ.ΥΥ to Υ٣.۶٩% wet basis (w.b.). Among the va-rieties, Hyola had the highest values for length, diameter, geometric mean diameter, sphericity and thousand seed mass at all moisture levels. Maximum and minimum values of bulk density were obtained for SLM (YMA.A kg m-W) and Hyola (۶۶۶.۰۶ kg m-W). The fill-ing and emptying angles of repose ranges were determined as Ya. TY. YA. Sto and Ya. FA-YA. F. Ao, respectively. At all moisture content levels, the static coefficient of friction was the greatest against rubber (o.٣YY-o.Ffo), followed by plywood (o.man-o.ffo), galvanized iron sheet (o.Mol-o.F19) while fiberglass sheet (o.Y5o-o.F1F) while the least for glass sheet (o.Y6W-o.M9Y). Among the four canola varieties, Orient and SLM showed respectively the least and the greatest static coefficients of .friction at all moisture levels studied

كلمات كليدى:

Canola seed, Geometrical properties, Gravimetrical properties, Frictional properties

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