



### Extruder Feed Screw Design and Data Form

Company \_\_\_\_\_ Date \_\_\_\_\_ Contact \_\_\_\_\_

Extruder Size - L/D \_\_\_\_\_ OEM \_\_\_\_\_ Year mfg \_\_\_\_\_

Process: Compound / Pelletizing, Sheet, Profile, Tubing, Pipe, Blown Film, Wire & Cable, Other \_\_\_\_\_

Resins processed \_\_\_\_\_ Mfg# \_\_\_\_\_ Pellets \_\_\_\_\_ Flake \_\_\_\_\_ Regrind \_\_\_\_\_ Powder \_\_\_\_\_ Other \_\_\_\_\_

Blend ratio: % Pellet \_\_\_\_\_ % Regrinds \_\_\_\_\_ Melt flow rate \_\_\_\_\_ Shore hardness (PVC) \_\_\_\_\_

Additives? Color or filler? \_\_\_\_\_ Ratio used \_\_\_\_\_ Is Resin pre dried? \_\_\_\_\_ Dryer temp \_\_\_\_\_

Other info: \_\_\_\_\_

#### Extruder

Max. screw RPM \_\_\_\_\_ HP \_\_\_\_\_ DC \_\_\_\_\_ AC \_\_\_\_\_ Mtr max RPM \_\_\_\_\_ Drive type \_\_\_\_\_

Vented Barrel? \_\_\_\_\_ Open \_\_\_\_\_ Closed \_\_\_\_\_ Feed Throat opening: Rectangle or Round, Size? \_\_\_\_\_

Distance of vent center location from rear of feed throat \_\_\_\_\_ Vent center from barrel end \_\_\_\_\_

Screen changer? \_\_\_\_\_ size \_\_\_\_\_ Melt pump? \_\_\_\_\_ Size / make \_\_\_\_\_ Static mixer \_\_\_\_\_ Type? \_\_\_\_\_

Barrel age and wear, if known \_\_\_\_\_ Type of liner inlay? Std \_\_\_\_\_ Carbide \_\_\_\_\_ Grooved \_\_\_\_\_

#### Present Screw Type

Barrier \_\_\_\_\_ Non Barrier \_\_\_\_\_ Vented \_\_\_\_\_ Vacuum on vent? \_\_\_\_\_ Mfg by \_\_\_\_\_

Age \_\_\_\_\_ Wear on OD \_\_\_\_\_ Other \_\_\_\_\_

Water cooling in feed section of screw? \_\_\_\_\_ Tip only cooling/PVC \_\_\_\_\_ Chrome plating? \_\_\_\_\_

Present output? \_\_\_\_\_ # hr @ Screw RPM \_\_\_\_\_

M/P RPM \_\_\_\_\_ Melt temp \_\_\_\_\_ Screen pressure \_\_\_\_\_

Desired output? \_\_\_\_\_ @ Screw RPM \_\_\_\_\_

Comments on present screw performance \_\_\_\_\_

New screw performance requirements \_\_\_\_\_