

<p align="center">Plastic Regrind & Blending</p> <p>Double Group Module: 19</p>	<p>TEL 204: Polymer Molding & Forming Department of Technology</p>	<p align="center">Students Names:</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>
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Overview:

Many thermoplastic polymer molding operations use a blend of virgin plastic and reprocessed material (regrind).

This is not post-consumer materials but the plastic that results from runners, sprues, gates, flash, etc. The percentage of regrind varies greatly by industry but most often does not exceed 25%. In this module you and three lab



partners will regrind POLYETHYLENE scrap from the blow molder. You will blend the material with virgin POLYETHYLENE flakes at a ratio of 50:50 (or other ratio specified by instructor).

Procedures.

1. UNPLUG the grinder before making any and all adjustments!
2. Clean all plastic out of the grinder. Plastic left in the machine from the previous job will contaminate the new batch.
3. Break up scrap blow molded products with hand tools.
4. Sort all scrap and only grind Polyethylene!
5. Blend one part regrind with one part virgin polyethylene.
6. Dry plastic to eliminate excessive moisture.
7. Clean grinder.

Grade:

		Plastic Blend (50)	Safety (50)
Instructor Signature:		Date:	Grade: