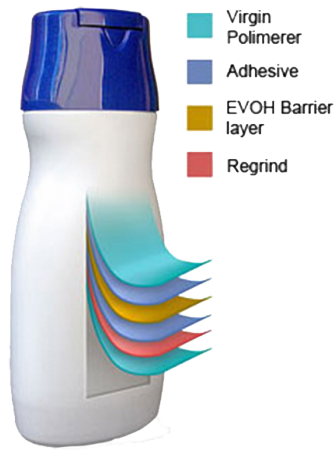






# Extrusion Multilayer Capabilities



**Looking for multilayer PCR capabilities? Soft Touch? Gloss? Check out Silgan Plastics' multilayer capabilities.**

## Multilayer Features

## Multilayer Benefits

BDS machine are tri-layer capable	<ul style="list-style-type: none"> <li>• Easy availability of machines and processing options without need for capital investment (90% are tri-layer capable)</li> </ul>
Shuttle heads with bi-layer or tri-layer capabilities	<ul style="list-style-type: none"> <li>• Can run from 2 to 10 parisons depending on machine and bottle size on approximately 13 multilayer heads.</li> <li>• Some heads are limited in layer configuration options (i.e. can only run the inner and outer layers)</li> </ul>
Soft Touch	<ul style="list-style-type: none"> <li>• Provides unique to bottle by skinning with a layer of PP material</li> <li>• Can run bi-layer or tri-layer configurations</li> <li>• Normal run 5% natural skin layer of Soft Touch material (PP)</li> <li>• Can run on shuttle equipment with multilayer head and either BDS G1 (8-cavity) or G2 (16-cavity) equipment</li> </ul>
Ultra-Gloss	 <ul style="list-style-type: none"> <li>• Provides unique texture and glossy appearance for additional shelf appeal</li> <li>• Can run bi-layer or tri-layer configurations</li> <li>• Can run on shuttle equipment with multilayer heads or on either BDS G1 (8-cavity) or G2 (16-cavity)</li> <li>• If color is required in outer layer for aesthetics we recommend running a 20% skin layer to weld lines and streaking which is more prevalent in pearl colors</li> <li>• If no color is required in the outer later, the skin later can be reduced to 10% for cost savings</li> </ul>
Tri-Layer or Bi-Layer	 <ul style="list-style-type: none"> <li>• Allows customers to utilize PCR for sustainability claims and may allow for color cost savings</li> <li>• Can be run on shuttle equipment with multilayer head and the majority of BDS lines</li> <li>• Can achieve average PCR content of 55% - 60%</li> <li>• For BDS run a tri-layer bottle with a 20% / 60% / 20% layer configuration</li> <li>• For shuttle run a tri-layer bottle with 15% / 70% / 15% layer configuration</li> <li>• 20% outer layer is recommendation to cover imperfections running a 20% skin layer to avoid weld lines and streaking which is more prevalent in pearls colors</li> <li>• Can run different color configurations for color savings or light barrier properties</li> </ul>
Nylon Barrier	 <ul style="list-style-type: none"> <li>• Provides superior barrier capabilities against Hydrocarbons</li> <li>• Can run on BDS only</li> <li>• Run with nylon layer .004"-.005" (HDPE / Adhesive / Nylon)</li> <li>• Regrind cannot be used</li> </ul>
Window-Stripe	 <ul style="list-style-type: none"> <li>• Allows consumes to view product volume</li> <li>• Can run window-stripe on BDS G1 (8-cavity) molds down to 4oz or on Shuttle heads equipped for view stripe</li> </ul>
Metallacine Materials	<ul style="list-style-type: none"> <li>• Provides customers with a glossy appearance for shelf appeal</li> <li>• Can run on multilayer shuttle equipment only</li> </ul>

This is an internal Silgan Plastics only document and meant for basic reference only. For questions or pricing on specific projects, please contact the Plant, the appropriate Product Development Engineer or Technical Pricing Analyst.