

Plastic Base Material Description

Natural Polypropylene

Homopolymer polypropylene is a thermoplastic with low specific gravity and excellent chemical resistance to a wide range of acids, alkalis and organic solvents. It is also used in de-ionized water distribution. It is not recommended for use with strong oxidizing acids, chlorinated hydrocarbons and aromatics.

The polypropylene used on our Spin Coaters is 100% natural, virgin (unprocessed) resin with no pigments or other fillers whatsoever.

These high purity properties make Natural Polypro an ideal alternative to PTFE and PVDF in many instances.

The maximum service temperature is 130°F (82°C). Although polypropylene has a low melting point, it offers excellent structural rigidity.

A solid-bowl Polypropylene Spin Coater is ultra-clean, with no metallics, giving a performance advantage over stainless steel, and coated bowl stainless steel systems.

PTFE (Polytetrafluoroethylene)

PTFE is practically insoluble and chemically inert to most chemicals and solvents. It is widely used in the handling of aggressive chemistries, and high purity de-ionized water. PTFE is also capable of sustained high temperature operation, up to 250°C depending on pressure.

The main advantages of PTFE are that it is ideal for both high purity and highly corrosive applications, because it is virtually impervious to corrosion, and is extremely low in terms of leaching. It is also excellent for valve parts due to its low frictional properties.

The PTFE used on our Spin Coaters is Dyneon™TFM™1600 which is a high grade advanced PTFE for contamination free processing.

A solid-bowl PTFE Spin Coater is ultra-clean, with no metallics, giving a performance advantage over stainless steel, and PFA coated bowl stainless steel systems.



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