



POST CONSUMER RESIN (PCR)

Ensuring a Sustainable Future



What is PCR?

Post consumer resin (PCR) is the recycled product of discarded packaging. Plastic materials are gathered and sent through a proprietary process to produce plastic resin pellets.

Why use PCR?

Consumers and brand owners alike are becoming increasingly aware of the impact they can have in preserving the environment. As a result, products that offer more sustainable packaging, including those made with PCR, are viewed more favorably among consumers and brands.

What markets are best suited for PCR?

PCR is especially suitable for customers/markets with a strong pursuit of sustainable options and a resolute sustainability platform, particularly personal care, household chemicals and Cannabis. Letters of Non-Objection or FDA Approval are available upon request through certain suppliers.

How much PCR can be included in a product?

MRP molding trials compared varying amounts of PCR from 25 to 100%. When selecting PCR for a packaging project, varying amounts should be tested to determine the best blend for your packaging project.

How does PCR's appearance differ from other resins?

Color – currently only grey and black are available in PCR. Testing will need to be performed to achieve custom colors blended with PCR. Black is preferred.

Aesthetics – while the quality of supply has improved dramatically, PCR will not produce perfectly crisp looking colors and packages. Customers seeking a flawless look should strongly consider if PCR is suitable for them. However, those who embrace the appearance variations that can be produced with PCR can use this as a selling advantage.

What are the benefits of PCR?

Utilizing PCR has the potential to keep billions of tons of plastic out of landfills. Reusing resin as PCR does not require further depletion of new fossil fuels. Post-consumer plastics such as PET and HDPE PCR have already been processed from a fossil fuel to plastic. Additionally, utilizing PCR has the potential to reduce greenhouse emissions by nearly 60%.

Does MRP offer PCR?

PCR molding trials were completed on several MRP product lines including disc tops, large diameter CRC's and Flappers as well as jars. Positive results from this testing have lead MRP to begin the process of adding PCR to our resin offerings.

For more information or to order product samples, contact Mold-Rite:
marketing@mrpcap.com | 330.425.4206 | www.mrpcap.com



ALTERNATE MATERIAL UPDATE

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What products are available in PCR?

Successfully sampled the following product lines

- Disc Tops – selling 20mm and 24mm in 100% PCR in black
- CRC's Outers
- Jars
- CT's

Additionally, preliminary testing is complete on Large Diameter 110mm Flapper closures.

Does PCR require an additional investment in equipment?

Blending equipment is needed in Twinsburg for full integration and complete full validation.

Some hot runner tools may require further validation.

What colors are available?

Samples were primarily tested in black and white with a few variations (blue, purple).

Badger Color has been successful in color matching and is working through creation of a variety of our stock colors in PCR. A ring of all possible PCR colors will be made available to the Sales team.

Is PCR only available in Polypropylene?

We are working to evaluate in LDPE on a 24-410 twist open.

How do we request samples?

Please enter sample requests through Salesforce. Justin will be added to the review process and determine process for sampling.

Has pricing been determined?

Book pricing is available, utilize normal quote request process for anything outside of book pricing.

Do we offer alternative resins?

We have successfully tested Hemp resin and molded 20% and 33% in our 89mm Regular wall jar, in black (molded as speckled brown). We are currently working to complete dimensional analysis on these jars and investigating the integration requirements (purging, blending, etc.) of the Hemp resin. Pricing and sourcing are also being evaluated.

What additional technologies are available?

ENSO Restore is an additive technology to enhance the biodegradation of traditional materials including polypropylene. Materials enhanced with this additive biodegrade 90% faster including within landfills. We have successfully validated the 89mm CT with 1% additive. This material is ready for production as requested. Samples can be requested sampling through normal process. Opportunity threshold for sampling and testing should be limited at 50,000 but all inquiries will be evaluated.