

## VINPOL™ PT090

### Modified Co-Polyester

**VINPOL PT090** is a modified co-polyester with higher melt strength and chemical resistance designed to produce clear, high-gloss containers with improved dimensional, thermal and chemical stability and that can be recycled with clear PET. Containers made via injection reheat stretch blow molding are particularly suited to package more aggressive liquids such as air fresheners, hair dyes and alkaline chemicals, as well as for higher internal pressure and temperature applications such as aerosols. Containers made with this product can carry the “PETE 1” resin identification code and can be recycled with the clear PET stream. VINPOL PT090 complies with FDA and Cosmetic Act for all food packaging applications and certain processing conditions.

| Resin Property                 | Typical Value         | Units              | Test Method           |
|--------------------------------|-----------------------|--------------------|-----------------------|
| Intrinsic Viscosity*           | 0.90 +/- 0.03         | dl/g               | Supplier Method       |
| Moisture Content (as produced) | 0.15 max.             | wt %               | Karl Fisher Titration |
| Acetaldehyde                   | 2.0 max.              | ppm                | Supplier Method       |
| Color<br>L*<br>b*              | 80.0 min.<br>1.5 max. |                    | Hunter Colorimeter    |
| Melting Point                  | 240 max.              | °C                 | Supplier method       |
| Fines, through 25 mesh         | 0.05                  | %                  | Supplier Method       |
| Chip Size                      | 2.0 max.              | g/100 chips        | Supplier Method       |
| Density                        | 1.39 min.             | g/cm <sup>3</sup>  | Supplier Method       |
| **Bulk Density                 | 52 min.               | lb/ft <sup>3</sup> | Supplier Method       |

\* Determined by conversion of solution viscosity to intrinsic viscosity using an empirical correlation developed by the supplier, equivalent to ASTM D-4603. 1% Solution in Dichloroacetic Acid.

\*\*Not equivalent to bulk density found with fully packed, larger quantities

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