



**POLYCRYL
CORPORATION**
**EarthGuard Resins
and Gel Coats**

Data Sheet

**POLYCRYL
CORPORATION**

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EG 2500 *EarthGuard 2500™*

EarthGuard's Low Exotherm Vinylester Hybrid Resin represents a major advance in tooling products. This Innovative Tooling Resin gives manufacturers the option to rapidly build superior molds due to its low exotherm and shrinkage, as well as fast cure cycles. *EarthGuard 2500* allows the mold-builder to do multiple laminates in one day, shortening the time required to build high quality tools. This combination, plus the low shrinkage, produces a superb low profile surface.

New Product Data

High-Performance Vinylester Urethane Hybrid Resin

Helps with Emissions by Dramatically Lowering Styrene in Tooling Shops

Utilizes New Chemistry to Achieve Extremely Low Styrene (HAP) Levels – 25% or Less

Exceeds All Current Federal VOC Requirements

User Friendly with Very Little Odor

Minimal Shrinkage with Improved Surface Profiles

Fast Wet-Out with Excellent Applications Properties

Greatly Reduces Cycle Times in the Production of High-Quality Molds

Fast Mold Turnover Which Allows Builders to Make Quick Model Changes

DISCLAIMER: The data on this sheet represents typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Polycryl assumes no obligation or liability for use of this information. UNLESS POLYCRYL AGREES OTHERWISE IN WRITING, POLYCRYL MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. POLYCRYL WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.

Typical Properties of EarthGuard 2500™

| Specification | Value |
|-----------------------------|------------------|
| Tensile Strength | 11,600 psi |
| Tensile Modulus | 580,000 psi |
| Tensile Elongation | 2.7 % |
| Flexural Strength | 19,000 psi |
| Flexural Modulus | 600,000 psi |
| Heat Distortion Temperature | 225 – 235° F |
| Barcol Hardness | 40 - 45 |
| Weight/Gallon, Pounds | 9.0 - 9.2 |
| #3—6 rpm, cps | 1,400 - 2,000 |
| #3—60 rpm, cps | 520 - 640 |
| Thixotropic Index | 2.00 – 3.00 |
| United Initiators 925H | 1.5% |
| Gel Time, Minutes | S 36-42, W 30-36 |
| Gel Peak, Minutes | 8 - 12 |
| Peak Exotherm, F | 290 – 350° |