



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

Data Sheet

**POLYCRYL
CORPORATION**

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EG 3000Plus *EarthGuard 3000 Plus™*

EarthGuard's Low Exotherm Filled VE Hybrid Resin represents a major advance in tooling products. This Innovative Filled 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 3000 Plus allows the mold-builder to do multiple laminates in one day, shortening the time required to build high quality tools. The low exotherm and low shrinkage produces a superb low profile surface.

New Product Data

- High-Performance Vinyl Ester Urethane Hybrid Filled Resin
- Helps with Emissions by Dramatically Lowering Styrene in Tooling Shops
- Utilizes New Chemistry to Achieve Extremely Low Styrene (HAP) Levels – 20% or Less
- Exceeds All Current Federal VOC Requirements
- User Friendly with Very Little Odor
- Minimal Shrinkage with Improved Surface Profiles
- 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 3000Plus™

Specification	Value
Tensile Strength	11,400 psi
Tensile Modulus	560,000 psi
Tensile Elongation	1.5-2.0 %
Flexural Strength	18,000 - 22,000 psi
Flexural Modulus	520,000 - 540,000 psi
Heat Distortion Temperature	260-275° F
Barcol Hardness	45 - 50
Weight/Gallon, Pounds	11.7 – 11.9
#4—6 rpm, cps	17,000 – 25,000
#4—60 rpm, cps	2500 - 4000
Thixotropic Index	3.00 - 5.00
United Initiators 925H	1.25%
Gel Time, Minutes	S 35-40, W 30-35
Gel Peak, Minutes	10-15
Peak Exotherm, F	285 – 310°