

**PRODUCT CODE: C200041**

POLYPLEX FILLABLE CASTING RESIN is a pre-promoted, low reactivity, orthophthalic unsaturated polyester resin especially formulated for use in synthetic marble casting applications. The resin is pre-promoted for room temperature with methyl ethyl ketone peroxide (MEKP) initiators.

POLYPLEX FILLABLE CASTING RESIN is non-thixotropic and wax-free.

### FEATURES

- Short gel time with positive cure characteristics after gelation
- Low to medium viscosity
- Non Thixotropic

### BENEFITS

- Allows rapid cycle times
- Accepts reasonably high filler loadings
- Air release is unimpaired

### TYPICAL LIQUID RESIN PROPERTIES

PROPERTY	TYPICAL VALUE	TEST DETAILS
Appearance	Clear Liquid	
Viscosity	400 – 600 Cp	Brookfield RVT sp 3/100 rpm
Geltime	4 – 8 minutes	1% MEKP Interox NR20
Density	1.10 gcm <sup>-3</sup>	
Flash Point	31° C	Setaflash
Styrene Content	36 – 39%	
Shelf Life	6 months	When stored in original closed container in the shade

Typical values: Based on materials tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items

### TYPICAL CAST UNFILLED RESIN PROPERTIES

PROPERTY	TYPICAL VALUE	TEST DETAILS
Hardness	40 - 45	Barcol (GYZ 934-1) EN 59
Density	1.19 gcm <sup>-3</sup>	ISO R1183
Volume Shrinkage	7 – 8%	ISO 3521
Tensile Strength	70 MPa	ISO R527
Flexural Strength	105 MPa	ISO 178
Elongation at break	2.0%	ISO R527
Heat Distortion Temperature	60 - 65° C	ISO 75 (1.8 MPa)

### STORAGE AND HANDLING

To ensure maximum stability and maintain optimum resin handling properties, polyester resins should be stored in closed containers, away from heat sources and sunlight. The resin should be stored away from all sources of ignition. Stored resin quantities should be kept to a reasonable minimum and used on a first in/first out stock rotation basis.

### STANDARD PACKAGING

Mild steel drums (open top)

Always refer to the MSDS before use