



# COR60-239-034

## Orthophthalic Laminating Resin

### Technical Data Sheet

COR60-239-034 is a semi-resilient, unsaturated polyester resin designed for the manufacture of boats, canoes, and other fiberglass-reinforced parts with thick laminate construction.

| FEATURES                  | BENEFITS  |
|---------------------------|---|
| • Low Laminate Exotherm   | • Good cosmetic surface and minimal glass print   |
| • Fast Trim Time          | • Shorter cycle times and fast Barcol development |
| • Good Fiberglass Wet-Out | • Easy roll-out with no stickiness                |
| • Even Cure               | • Works well in thin laminates                    |

| LIQUID PROPERTIES  | RESULTS  |
|--|--|
| Viscosity, Brookfield Model LV #3 Spindle @ 60 rpm, 77°F (25°C), cps   | 500-575  |
| Thixotropic Index  | 2.7-3.5  |
| 100 grams resin @ 77°F (25°C), initiated with 1.0% DDM-9 by weight *<br>Gel Time, min:sec<br>Gel to Peak Exotherm Time, min:sec<br>Peak Exotherm | 25:00-30:00<br>7:00-17:00<br>240-320°F (116-160°C) |
| Non-Volatile Content, %  | 56.0-60.0  |
| Hazardous Air Pollutant (Styrene) Content, %   | 40-44  |

| TYPICAL PROPERTIES  |                           |          |
|---|---------------------------|----------|
| Thickness   | 1/8 inch (3.2 mm) Casting |          |
| Flexural Strength, ASTM D790  | 20,940 psi                | 145 MPa  |
| Flexural Modulus, ASTM D790   | $5.4 \times 10^5$ psi     | 3693 MPa |
| Tensile Strength, ASTM D638   | 11,321 psi                | 78 MPa   |
| Tensile Modulus, ASTM D638  | $5.55 \times 10^5$ psi    | 3829 MPa |
| Tensile Elongation, ASTM D638   | 2.75 %                    | 2.75 %   |
| Barcol Hardness, 934-1 gauge, ASTM D2583  | 46                        | 46       |
| Heat Distortion Temperature, ASTM D648  | 181 °F                    | 83 °C    |
| * The gel time and reactivity will vary due to the type and concentration of Free Radical Initiator (catalyst), shop temperature, humidity, and type of fillers used. In order to meet your individual needs consult our technical sales representative for assistance. |                           |          |
| Testing conducted at 77°F (25°C) and 50% relative humidity. Results may depend on post-cure and batch variations within nominal blend component compositions.   |                           |          |

All specifications and properties specified above are approximate. Specifications and properties of material delivered may vary slightly from those given above. Interplastic Corporation makes no representations of fact regarding the material except those specified above. No person has any authority to bind Interplastic Corporation to any representation except those specified above. Final determination of the suitability of the material for the use contemplated is the sole responsibility of the Buyer. The Thermoset Resins Division's technical sales representatives will assist in developing procedures to fit individual requirements.

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