

# Hapcast™ 3731

Thermoplastic

Hapco Inc.

## Message:

HAPCAST™ 3731 is a truly unique polymer alloy system, with the following features:

- Prototype and production molds can be made quickly and at low cost.
- Easily poured in a small or large mass.
- Short term exposure to 275°F and continuous service at 250° F.
- Easily drilled, tapped, milled, sanded, ground, polished and turned in a lathe.
- Shrinkage as low as .00075 per linear inch can be obtained through proper selection of curing agent for any given mass.

Applications:

- Molds
- Dies
- Duplicate & Master Models
- Foundry Patterns
- Fixtures

| General Information            |                    |                   |
|--------------------------------|--------------------|-------------------|
| Features                       | Fast Molding Cycle |                   |
|                                | Low Shrinkage      |                   |
|                                | Low Viscosity      |                   |
|                                | Machinable         |                   |
| Uses                           | Molds/Dies/Tools   |                   |
| Appearance                     | Aluminum           |                   |
| Forms                          | Liquid             |                   |
| Processing Method              | Casting            |                   |
| Physical                       | Nominal Value      | Unit              |
| Specific Gravity               | 1.83 to 1.96       | g/cm <sup>3</sup> |
| Molding Shrinkage - Flow       |                    |                   |
| -- <sup>1</sup>                | 0.050 to 0.10      | %                 |
| --                             | 0.075 to 0.15      | %                 |
| Hardness                       | Nominal Value      | Unit              |
| Durometer Hardness (Shore D)   | 88                 |                   |
| Mechanical                     | Nominal Value      | Unit              |
| Compressive Strength           | 95.1               | MPa               |
| Thermoset                      | Nominal Value      | Unit              |
| Thermoset Mix Viscosity (25°C) | 4500               | cP                |
| NOTE                           |                    |                   |
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