

Vipel® K190-BHC-26

Polyester Alloy

AOC, L.L.C.

Message:

Fire Retardant Chlorendic Polyester Resin

Vipel K190 series is a thixotropic chlorendic polyester resin designed for fire resistant and corrosion resistant applications. K190 series resin is designed to be used in demanding chemical environments such as hot wet chlorine and oxidizing chemicals.

Flame/Smoke Resistance

Vipel K190-B series resin meet ASTM E 84 Class II when 3.0% antimony trioxide is added.

Heat Resistance

Vipel K190-B series is designed for high temperature applications.

Versatile

Suitable for various fabricating methods such as hand lay-up, filament winding, etc.

Corrosion Resistance

Vipel K190 is highly resistant to a number of chemical environments. Refer to AOC's "Corrosion Resistant Resin Guide" for corrosion resistance information or for questions regarding suitability of a resin to any particular chemical environment contact AOC.

| General Information | | | |
|---|---------------------------|-------------------|-------------|
| Features | Flame Retardant | | |
| | Good Corrosion Resistance | | |
| | High Heat Resistance | | |
| | Low Smoke Emission | | |
| | Thixotropic | | |
| Uses | Filaments | | |
| Forms | Liquid | | |
| Processing Method | Filament Winding | | |
| | Hand Lay-up | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.14 | g/cm ³ | |
| Styrene Content | 43 | % | |
| Flame Spread Index - 3% Antimony Trioxide | 35.0 | | ASTM E84 |
| Smoke Developed - 3% Antimony Trioxide | 445 | | ASTM E84 |
| Exotherm | | | |
| Gel to Peak | 13.0 | min | |
| Peak | 197 | °C | |
| Gel Time (25°C) ¹ | 25.0 | min | |
| Thixotropic Index ² | 2.50 | | |
| Hardness | Nominal Value | Unit | Test Method |
| Barcol Hardness | 45 | | ASTM D2583 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 3400 | MPa | ASTM D638 |

| | | | |
|---|---|------|-------------|
| Tensile Strength (Yield) | 58.6 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.4 | % | ASTM D638 |
| Flexural Modulus | 3790 | MPa | ASTM D790 |
| Flexural Strength | 110 | MPa | ASTM D790 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 138 | °C | ASTM D648 |
| Thermoset | Nominal Value | Unit | |
| Thermoset Mix Viscosity ³ (25°C) | 350 | cP | |
| NOTE | | | |
| 1. | Gel time with 1.25% MEKP | | |
| 2. | 6/60 rpm Thix Index | | |
| 3. | Brookfield LV viscosity spindle 3 at 60 rpm | | |

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