

Vipel® F774-PTW-30

Polyester Alloy

AOC, L.L.C.

Message:

AOC's F774 Series is a high cross-linked terephthalic polyester resin.

The F774 series resin were developed to meet the demanding requirements of underground petroleum storage tanks that contain oxygenated fuels.

BENEFITS

UL Recognition

AOC's F774 Series resins are recognized by UL for meeting the requirements of UL 1316 and UL 1746 Part II and Part III.

Corrosion Resistance

F774 Series resins provide excellent corrosion resistance when used in contact with inorganic and organic acids. Solvent resistance is field-proven for many fuels including gasoline, kerosene, heating oil and crude oils. 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.

Versatile

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

| General Information | | | |
|------------------------|----------------------------|------|-------------|
| Features | terephthalic acid | | |
| | Solvent resistance | | |
| | Crosslinkable | | |
| | Good corrosion resistance | | |
| | Gasoline resistance | | |
| | acid resistance | | |
| | Oil resistance | | |
| Uses | Fuel Tank | | |
| Agency Ratings | UL 1316 | | |
| | UL 1746 Part II & Part III | | |
| Forms | Liquid | | |
| Processing Method | Filament power winding | | |
| | Sprayable | | |
| | Hand coating | | |
| Hardness | Nominal Value | | Test Method |
| Barcol Hardness | 46 | | ASTM D2583 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 4000 | MPa | ISO 527-2 |
| Tensile Stress | 80.0 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 2.7 | % | ISO 527-2 |
| Flexural Modulus | 4000 | MPa | ISO 178 |
| Flexural Stress | 114 | MPa | ISO 178 |
| Thermal | Nominal Value | Unit | Test Method |

| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 146 | °C | ASTM D648 |
|---|---------------|------|-----------|
| Additional Information | Nominal Value | Unit | |
| Gel to Peak | 11.0 | min | |
| HAP Content | 45 | % | |
| Peak Exotherm | 220 | °C | |
| Thixotropic Index ¹ | 2.00 | | |
| Uncured Properties | Nominal Value | Unit | |
| Viscosity (25°C, Brookfield RVT) | 0.70 | Pa·s | |
| Gel Time (25°C) | 30 | min | |
| NOTE | | | |
| 1. | 2/20 rpm | | |

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