Vipel® F774-PTA-25

Polyester Alloy

AOC, L.L.C.

Message:

Vipel® Corrosion High-Cross Linked, Terephthalic Polyester Resin
Vipel® F774-PTA series is a high cross-linked terephthalic polyester resin. Vipel F774 series resin are recognized by underwriters laboratories for meeting the requirements of UL 1316 and UL 1746 Part II and Part III. Vipel® F774 series resin were developed to meet the demanding requirements of underground petroleum storage tanks that contain oxygenated fuels
UL Recognition
AOC's Vipel® F774 series resins are recognized by UL for meeting the requirements of UL 1316 and UL 1746 Part II and Part III.
Corrosion Resistance
Vipel® 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.
Food and Drug
All resins in this datasheet are manufactured from raw materials that are listed in FDA regulation Title 21 CFR 177.2420. It is the fabricator's responsibility to also be sure that the final composite is well cured. All composites used for FDA applications should be post cured at 180°F for at least 4 hours. After post curing it should be washed with soap and water and rinsed.

General Information	
Features	Acid Resistant
	Crosslinkable
	Food Contact Acceptable
	Good Corrosion Resistance
	Solvent Resistant
	Terephthalic
Uses	Coating Applications
	Filaments
	Fuel Tanks
Agency Ratings	FDA 21 CFR 177.2420
	UL 1316
	UL 1746 Part II & Part III
Forms	Liquid
Processing Method	Filament Winding
	Hand Lay-up
	Spraying

Hardness	Nominal Value	Test Method
Barcol Hardness	46	ASTM D2583

Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	3860	MPa	ASTM D638
Tensile Strength (Yield)	80.7	MPa	ASTM D638
Tensile Elongation (Break)	2.7	%	ASTM D638
Flexural Modulus	3860	MPa	ASTM D790
Flexural Strength	119	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	146	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity [1] (25°C)	700	cP	
Post Cure Time (82°C)	4.0	hr	
Exotherm			
Gel to Peak	11.0	min	
Peak	220	°C	
Gel Time (25°C) [2]	25.0	min	
HAP Content	45	%	
Thixotropic Index (25°C) [3]	2.00		

NOTE	
1.	Brookfield RVT viscosity spindle 2 at 20 rpm
2.	Gel time with 1.0% MEKP (100 gram mass)
3.	2/20 Thix Index

Recommended distributors for this material

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