

Vipel® F764-PTA-27

Polyester Alloy

AOC, L.L.C.

Message:

Vipel® Corrosion High Cross-Linked, Isophthalic Polyester Resin

AOC's Vipel® F764-PT series is a high cross-linked isophthalic polyester resin. Vipel F764 series resin are recognized by underwriters laboratories for meeting the requirements of UL 1316 and UL 1746 Part II and Part III. AOC's Vipel® F764-PT series resins were developed to meet the demanding requirements of underground petroleum storage tanks that contain oxygenated fuels.

UL Recognition

AOC's Vipel® F764-PT series resins are recognized by UL for meeting the requirements of UL 1316 and UL 1746 Part II and Part III.

Corrosion Resistance

Vipel® F764-PT 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		
	Isophthalic		
	Solvent Resistant		
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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	
Styrene Content	45	%	

Exotherm			
Gel to Peak	16.0	min	
Peak	218	°C	
Gel Time (25°C) ¹	27.0	min	
Thixotropic Index (25°C) ²	2.00		
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	51		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3520	MPa	ASTM D638
Tensile Strength (Yield)	69.6	MPa	ASTM D638
Tensile Elongation (Break)	2.3	%	ASTM D638
Flexural Modulus	3860	MPa	ASTM D790
Flexural Strength	123	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	139	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity ³ (25°C)	600	cP	
Post Cure Time (82°C)	4.0	hr	
NOTE			
1.	Gel time with 1.0% MEKP		
2.	2/20 Thix Index		
3.	Brookfield RV viscosity spindle 2 at 20 rpm		

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