

Vipel® F774-APT-20

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		
Barcol Hardness	46		
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

Heat Deflection Temperature (1.8 MPa, Unannealed)	146	°C	ISO 75-2/A
Additional Information	Nominal Value	Unit	
Gel to Peak	10.0	min	
HAP Content	42	%	
Peak Exotherm	200	°C	
Thixotropic Index ¹	2.00		
Uncured Properties	Nominal Value	Unit	
Viscosity (25°C, Brookfield LV)	0.60	Pa·s	
Gel Time (25°C)	20	min	
NOTE			
1.	6/60 rpm		

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Recommended distributors for this material


Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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