Vipel® K190-BFC-45

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	1.15	g/cm³		
Styrene Content	39	%		
Flame Spread Index - 3% Antimony	25.0			
Trioxide	35.0		ASTM E84	
Smoke Developed - 3% Antimony Trioxide	445		ASTM E84	
Exotherm				
Gel to Peak	11.0	min		
Peak	193	°C		
Gel Time (25°C) ¹	46.0	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	сР	
NOTE			
1.	Gel time with 1.5% MEKP		
2.	6/60 rpm Thix Index		
3.	Brookfield LV viscosity spindle 3 at 60 rpm		

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