

Vipel® F707-PVA-15

Polyester Alloy

AOC, L.L.C.

Message:

Vipel Corrosion Resistant Flexibilized, Isophthalic, NPG, Polyester Resin

DESCRIPTION

AOC's Vipel F707-PVA series are isophthalic-NPG, two stage, unsaturated polyester resins. The wet-out, cure and handling characteristics are typical of general purpose resins.

BENEFITS

PVC Bonding - Laminates made with Vipel F707-PVA resin bond to PVC.

Versatile

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

Food and Drug

All resins listed on this product data sheet are manufactured from raw materials that are listed in FDA regulation Title 21 CFR 177.2420. It is the fabricators 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/82°C for at least 4 hours. After post curing , laminate should be washed with soap and water and rinsed.

General Information			
Features	Bondability		
	Food Contact Acceptable		
	Good Corrosion Resistance		
	Good Flexibility		
	Isophthalic		
Uses	Coating Applications		
	Filaments		
	Laminates		
Agency Ratings	FDA 21 CFR 177.2420		
Forms	Liquid		
Processing Method	Filament Winding		
	Hand Lay-up		
	Spraying		
Physical	Nominal Value	Unit	
Specific Gravity	1.06	g/cm ³	
Styrene Content	48	%	
Exotherm			
Gel to Peak	15.0	min	
Peak	191	°C	
Gel Time (25°C) ¹	15.0	min	
Thixotropic Index	2.00		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3860	MPa	ASTM D638

Tensile Strength	86.2	MPa	ASTM D638
Tensile Elongation (Break)	3.7	%	ASTM D638
Flexural Modulus	4070	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	78.3	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity ² (25°C)	500	cP	
Post Cure Time (82°C)	4.0	hr	
NOTE			
1.	Gel Time with 1.0% MEKP		
2.	LV viscosity spindle 3 at 60 rpm		

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