

Kynar® HSV 900

Polyvinylidene Fluoride

Arkema

Message:

KYNAR® HSV 900 is a very high solution viscosity PVDF homopolymer used commonly as a binder for lithium ion battery binders. KYNAR® HSV 900 can also be added to other polymers to increase toughness.

General Information			
Features	Good Toughness		
	High Viscosity		
Uses	Additive		
	Batteries		
	Binder		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.77 to 1.79	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	76 to 80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	40.0 to 55.0	MPa	
Break	34.0 to 43.0	MPa	
Tensile Elongation (Break)	50 to 250	%	ASTM D638
Flexural Modulus	1360 to 2210	MPa	ASTM D790
Flexural Strength	48.0 to 62.0	MPa	ASTM D790
Compressive Strength	68.0 to 103	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	162 to 172	°C	ASTM D3418
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (230°C, 100 sec ⁻¹)	4450 to 5450	Pa · s	ASTM D3835

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