# Kynar Flex® 2851-00

### Polyvinylidene Fluoride

#### Arkema

#### Message:

KYNAR FLEX® 2850-00 is a pelletized, semi-crystalline VF2 based copolymer. The powder form of this resin is designated KYNAR FLEX® 2851-00. KYNAR FLEX® 2850-00 has been specifically designed for use in wire and cable constructions which require an Underwriters Laboratories temperature of 150°C. It is close in physical performance to KYNAR® PVDF homopolymer grades, but has a higher flexibility. KYNAR FLEX® 2850-00 is also used in chemical applications as extruded sheet and pipe liners. ADDITIONAL CHARACTERISTICS:

Excellent thermal stability Excellent abrasion resistance Excellent purity and chemical resistance Impervious to UV degradation Self extinguishing material Extremely low smoke emission characteristics Pigmentable

General Information			
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Colorability		
	Good Thermal Stability		
	Good UV Resistance		
	High Purity		
	Low Smoke Emission		
	Self Extinguishing		
	Semi Crystalline		
Uses	Liners		
	Piping		
	Sheet		
	Wire & Cable Applications		
Forms	Powder		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.77 to 1.80	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	70 to 75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	31.0 to 41.4	MPa	
Break, 23°C	27.6 to 48.3	MPa	
Tensile Elongation (Break, 23°C)	30 to 200	%	ASTM D638

Flexural Modulus (23°C)1030 to 1240MPaASTM D790Flexural Strength (23°C)20.7 to 34.5MPaASTM D790Compressive Strength (23°C)41.4 to 58.6MPaASTM D695ThermalNominal ValueUnitTest MethodPeak Melting Temperature155 to 160°CASTM D3418ElectricalNominal ValueUnitTest MethodVolume Resistivity <sup>1</sup> (20°C)2.0E+14ohms·cmASTM D257Fill AnalysisNominal ValueUnitTest MethodMelt Viscosity (232°C, 100 sec^-1)2300 to 2700Pa·sASTM D3835NOTE				
Compressive Strength (23°C)41.4 to 58.6MPaASTM D695ThermalNominal ValueUnitTest MethodPeak Melting Temperature155 to 160°CASTM D3418ElectricalNominal ValueUnitTest MethodVolume Resistivity <sup>1</sup> (20°C)2.0E+14ohms·cmASTM D257Fill AnalysisNominal ValueUnitTest MethodMelt Viscosity (232°C, 100 sec^-1)2300 to 2700Pa·sASTM D3835	Flexural Modulus (23°C)	1030 to 1240	MPa	ASTM D790
ThermalNominal ValueUnitTest MethodPeak Melting Temperature155 to 160°CASTM D3418ElectricalNominal ValueUnitTest MethodVolume Resistivity <sup>1</sup> (20°C)2.0E+14ohms · cmASTM D257Fill AnalysisNominal ValueUnitTest MethodMelt Viscosity (232°C, 100 sec^-1)2300 to 2700Pa · sASTM D3835	Flexural Strength (23°C)	20.7 to 34.5	MPa	ASTM D790
Peak Melting Temperature   155 to 160   °C   ASTM D3418     Electrical   Nominal Value   Unit   Test Method     Volume Resistivity <sup>1</sup> (20°C)   2.0E+14   ohms·cm   ASTM D257     Fill Analysis   Nominal Value   Unit   Test Method     Melt Viscosity (232°C, 100 sec^-1)   2300 to 2700   Pa·s   ASTM D3835	Compressive Strength (23°C)	41.4 to 58.6	MPa	ASTM D695
Electrical Nominal Value Unit Test Method   Volume Resistivity <sup>1</sup> (20°C) 2.0E+14 ohms·cm ASTM D257   Fill Analysis Nominal Value Unit Test Method   Melt Viscosity (232°C, 100 sec^-1) 2300 to 2700 Pa·s ASTM D3835	Thermal	Nominal Value	Unit	Test Method
Volume Resistivity <sup>1</sup> (20°C) 2.0E+14 ohms·cm ASTM D257   Fill Analysis Nominal Value Unit Test Method   Melt Viscosity (232°C, 100 sec^-1) 2300 to 2700 Pa·s ASTM D3835	Peak Melting Temperature	155 to 160	°C	ASTM D3418
Fill Analysis Nominal Value Unit Test Method   Melt Viscosity (232°C, 100 sec^-1) 2300 to 2700 Pa · s ASTM D3835	Electrical	Nominal Value	Unit	Test Method
Melt Viscosity (232°C, 100 sec^-1)     2300 to 2700     Pa · s     ASTM D3835	Volume Resistivity <sup>1</sup> (20°C)	2.0E+14	ohms·cm	ASTM D257
	Fill Analysis	Nominal Value	Unit	Test Method
NOTE	Melt Viscosity (232°C, 100 sec^-1)	2300 to 2700	Pa·s	ASTM D3835
	NOTE			
1. 65% R.H.	1.	65% R.H.		

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