Kynar Flex® 2850-00

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	
UL YellowCard	E54699-244852
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	Pellets
Processing Method	Extrusion
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Specific Volume vs Temperature (ISO 11403-2) Viscosity vs. Shear Rate (ISO 11403-2)

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 1240	MPa	ASTM D790
Flexural Strength (23°C)	20.7 to 34.5	MPa	ASTM D790
Compressive Strength (23°C)	41.4 to 58.6	MPa	ASTM D695
Thermal	**Nominal Value**	**Unit**	**Test Method**
Peak Melting Temperature	155 to 160	°C	ASTM D3418
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity [1] (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
NOTE			
1.	65% R.H.		

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