

Kynar® 720

Polyvinylidene Fluoride

Arkema

Message:

KYNAR® 720 is a semi-crystalline low molecular weight pelletized polymer of vinylidene fluoride. It is a versatile engineering plastic with an outstanding balance of physical and chemical properties which qualify it for high performance service in a wide range of applications. It is a thermoplastic fluoropolymer capable of being fabricated in standard processing equipment. The molecular weight and molecular weight distribution have been carefully tailored to supply a grade suitable for a variety of processing requirements and end-use applications.

KYNAR® 720 is recommended for fine extrusion operations such as monofilament and thin, flat, and blown film. It is also suitable for injection molding applications where very thin cross-sections for intricate design require excellent melt flow characteristics. KYNAR® 720 is also suggested for coextrusion of composite constructions and as a base for filled or alloyed KYNAR® compounds.

The powder form of this resin grade is available as KYNAR® 721 PVDF.

General Information			
UL YellowCard	E54699-244848		
Features	Low Molecular Weight		
	Semi Crystalline		
Uses	Blown Film		
	Film		
	Thin-walled Parts		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (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 1.79	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	5.0 to 27	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	76 to 80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	44.8 to 55.2	MPa	
Break, 23°C	34.5 to 55.2	MPa	
Tensile Elongation (Break, 23°C)	20 to 100	%	ASTM D638
Flexural Modulus (23°C)	1380 to 2310	MPa	ASTM D790

Flexural Strength (23°C)	58.6 to 75.8	MPa	ASTM D790
Compressive Strength (23°C)	68.9 to 103	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	165 to 172	°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)	600 to 1200	Pa·s	ASTM D3835
NOTE			

1. 65% R.H.

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