

KYNAR® 720 PELLETS/721 POWDER

- 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.

The following table and figures summarize the properties of KYNAR® 720 pellets and KYNAR® 721 powder:

TYPICAL PROPERTIES*

PROPERTY	METHOD	CONDITIONS	ENGLISH / COMMON UNITS	VALUE
Specific Gravity	D792	73°F (23°C)	-	1.77 - 1.79
Melt Viscosity	D3835	450°F, 100 sec ⁻¹	poise	6,000 - 12,000
Melt Flow Rate	D1238	8.36 lb (3.8 kg)	grams/10 minutes	5.0 - 26.5
Melting Temperature	D3418	-	°F (°C)	329 - 342 (165 - 172)
Tensile Yield Strength	D638	73°F (23°C)	psi (MPa)	6,500 - 8,000 (34 - 55)
Tensile Break Strength	D638	73°F (23°C)	psi (MPa)	5,000 - 8,000 (34 - 55)
Tensile Break Elongation	D638	73°F (23°C)	%	20 - 100
Flexural Strength	D790	73°F (23°C)	psi (MPa)	8,500 - 11,000 (58 - 76)
Flexural Modulus	D790	73°F (23°C)	psi (MPa)	200,000 - 335,000 (1655 - 2310)
Compressive Strength	D695	73°F (23°C)	psi (MPa)	10,000 - 15,000 (69 - 103)
Hardness	D2240	73°F (23°C)	Shore D	76 - 80
Volume Resistivity	D257	DC 68°F (20°C) 65% R.H.	ohm-cm	2 x 10 ¹⁴

*Typical property values. Should not be construed as sales specifications.

KYNAR®
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See MSDS for Health & Safety Considerations