Kynar® 710

Polyvinylidene Fluoride

Arkema

Message:

KYNAR® 710 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 grades suitable for a variety of processing requirements and end-use applications.
KYNAR® 710 is suitable for injection molding. It may also be used for thin wall wire jacketing and tube extrusion.
The powder form of this resin grade is available as KYNAR® 711 PVDF.

General Information	
UL YellowCard	E54699-244847
Features	Low Molecular Weight Semi Crystalline
Uses	Wire Jacketing
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/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)	19 to 35	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)	400 to 800	Pa·s	ASTM D3835
NOTE			
1.	65% R.H.		

Recommended distributors for this material

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