Kynar® 740 Black

Polyvinylidene Fluoride

Arkema

Message:

KYNAR® 740 BLACK is a semi-crystalline medium-high molecular weight pelletized polymer of vinylidene fluoride which is pigmented black. 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® 740 BLACK is appropriate for use in most injection molding applications as well as extrusion of pipes and profiles. The black pigment is registered under the code of federal regulations for use in contact with food.

General Information	
Features	Food Contact Acceptable High Molecular Weight Medium Molecular Weight Semi Crystalline
Uses	Piping Profiles
Appearance	Black
Forms	Pellets
Processing Method	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.77 to 1.79	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)	6.0 to 25	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)	1500 to 2300	Pa·s	ASTM D3835
NOTE			
1.	65% R.H.		

Recommended distributors for this material

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