

Kynar® 460

Polyvinylidene Fluoride

Arkema

Message:

KYNAR® 460 is a semi-crystalline high 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. The powder form of this resin is available as KYNAR® 461.

General Information			
UL YellowCard	E54699-244844		
Features	High Molecular Weight		
	Semi Crystalline		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75 to 1.77	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	75 to 80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	34.5 to 48.3	MPa	
Break, 23°C	31.0 to 48.3	MPa	
Tensile Elongation (Break, 23°C)	50 to 250	%	ASTM D638
Flexural Modulus (23°C)	1380 to 1790	MPa	ASTM D790
Flexural Strength (23°C)	48.3 to 62.1	MPa	ASTM D790
Compressive Strength (23°C)	55.2 to 68.9	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)	2350 to 2950	Pa · s	ASTM D3835
NOTE			
1.	65% R.H.		

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