

Shanghai Ofluorine PVDF Z-1

Polyvinylidene Fluoride

Shanghai Ofluorine Chemical Technology Co., Ltd

Message:

Low melt viscosity, more suitable for injection molding.
Z-1 PVDF as raw materials, the finished products has excellent mechanical strength and flexibility. It can not be eroded by acid, alkali, strong oxidant, halogens. Good durability to aliphatic hydrocarbons, aromatic hydrocarbons, alcohol, aldehyde etc. In the work of hydrochloric acid, nitric acid, sulfuric acid, dilute alkali liquor, dense alkali liquor(40%) and 100deg.C, which keep stable.
Others, Z-1 PVDF finished products has the properties of gamma-Ray resistant, UV resistant, and stability in wide temperature range.
Application: Be used in manufacturing PVDF valves, PVDF teller rosette ring, PVDF pall ring etc, semi-conductor industry, such as ultrapure water field etc.

General Information			
Features	Acid Resistant		
	Alcohol Resistant		
	Alkali Resistant		
	Good Flexibility		
	Good Thermal Stability		
	Good UV Resistance		
	High Strength		
	Hydrocarbon Resistant		
	Low to No Odor		
	Low Viscosity		
	Oxidation Resistant		
	Radiation (Gamma) Resistant		
Uses	Valves/Valve Parts		
Appearance	Translucent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.77 to 1.79	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	15 to 25	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	< 0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70 to 80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, 23°C	> 40.0	MPa	
Break, 23°C	> 25.0	MPa	
Tensile Elongation ²			ASTM D638
Yield, 23°C	> 10	%	
Break, 23°C	> 20	%	

Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature ³	165 to 171	°C	ASTM D3418
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	10°C/min		

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