Shanghai Ofluorine PVDF M-1

Polyvinylidene Fluoride

Shanghai Ofluorine Chemical Technology Co., Ltd

Message:

PVDF homopolymer, with high melt viscosity, more suitable for compression molding.
M-1 PVDF as raw materials, the finished products has excellent mechanical strength and tenacity. 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 100°C temperature, its performance keep stable.
Others, M-1 PVDF finished products has the properties of gamma-Ray resistant, UV resistant, and stability in wide temperature range.

General Information			
Features	Acid Resistant		
	Alcohol Resistant		
	Alkali Resistant		
	Good Thermal Stability		
	Good UV Resistance		
	High Strength		
	High Viscosity		
	Homopolymer		
	Hydrocarbon Resistant		
	Low to No Odor		
	Oxidation Resistant		
	Radiation (Gamma) Resistant		
Appearance	Translucent		
Forms	Pellets		
Processing Method	Compression Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.77 to 1.79	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/12.5 kg)	1.0 to 4.0	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	> 35.0	MPa	
Break, 23°C	> 35.5	MPa	
Tensile Elongation [2] (Break, 23°C)	> 25	%	ASTM D638
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

Recommended distributors for this material

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