

ENZINRON (PVDF)

	METHOD	UNIT	VALUE
Mechanical Properties			
Specific gravity	ASTM D792	g/cm ³	1.75
Tensile yield strength	ASTM D638	Mpa	50
Breaking elongation	ASTM D638	%	10
Bending strength	ASTM 790	Mpa	80
Flexural modulus	ASTM 790	Mpa	2000
Shore hardness	ASTM D2240	D	78
Impact strength	ASTM D256	J/M	200
Thermal Properties			
Melting point	DSC	°C	175
Heat distortion temperature	ASTM D648	°C	140
Operating temperature	-	°C	150
Maximum operating temperature	-	°C	180
Thermal conductivity	DIN 52612- 1	W/(K-M)	0.13
Coefficient of linear thermal	ASTM D696	10 ⁻⁵ - 1/K	12
Electrical Properties			
Dielectric strength	ASTM D150	KV-mm	22
Dielectric loss factor	ASTM D150	-	0.18
Volume resistivity	ASTM D257	Ω.cm	10 ¹⁴
Surface resistivity	ASTM D257	Ω	10 ¹⁴
Dielectric constant	ASTM D149	-	7.25
Chemical Properties			
Water absorption	23°C 60%RH	%	0.1
Acid resistance	23°C 60%RH		+
Alkali resistance			+
Acid and alkali resistance			+
Resistance to sodium chlorate			+
Resistance to aromatic compounds			+
Resistance to ketone	23°C 60%RH		+
Resistance to hot water	23°C 60%RH		+
Others			
Flammability	UL 94		V-0
Viscosity	-		0
Non toxic	EEC 90/128 FDA		+
Coefficient of friction	DIN 53375		0.34
Anti-ultraviolet	-		0

Remarks:

- 1.“+”: positive “-”: negative “0”: depends.
2. All the parameters above are based on raw material but not finished products.