

ENZINRON (PTFE)

	METHOD	UNIT	VALUE
Mechanical Properties			
Specific gravity	ASTM D792	g/cm ³	2.2
Tensile yield strength	ASTM D638	Mpa	18
Breaking elongation	ASTM D638	%	220
Bending strength	ASTM 790	Mpa	20
Flexural modulus	ASTM 790	Mpa	700
Shore hardness	ASTM D2240	D	50
Impact strength	ASTM D256	J/M	26
Thermal Properties			
Melting point	DSC	°C	327
Heat distortion temperature	ASTM D648	°C	55
Operating temperature	-	°C	220
Maximum operating temperature	-	°C	260
Thermal conductivity	DIN 52612- 1	W/(K-M)	0.26
Coefficient of linear thermal expansion	ASTM D696	10 ⁻⁵ - 1/K	10.3
Electrical Properties			
Dielectric strength	ASTM D150	KV-mm	10
Dielectric loss factor	ASTM D150	-	0.0001
Volume resistivity	ASTM D257	Ω.cm	10 ¹⁵
Surface resistivity	ASTM D257	Ω	10 ¹⁶
Dielectric constant	ASTM D149	-	2.1
Chemical Properties			
Water absorption	23°C 60%RH	%	0.01
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	-		+
Non toxic	EEC 90/128 FDA		+
Coefficient of friction	DIN 53375		0.13
Anti-ultraviolet	-		

Remarks:

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