

ENZINRON (PPSU)

	METHOD	UNIT	VALUE
Mechanical Properties			
Specific gravity	ASTM D792	g/cm ³	1.23
Tensile yield strength	ASTM D638	Mpa	75
Breaking elongation	ASTM D638	%	6
Shore hardness	ASTM D2240	D	90
Impact strength	ASTM D256	J/M	5.5
Thermal Properties			
Melting point	DSC	°C	300
Heat distortion temperature	ASTM D648	°C	180
Operating temperature	-	°C	160
Maximum operating temperature	-	°C	200
Thermal conductivity	DIN 52612- 1	W/(K-M)	-
Coefficient of linear thermal	ASTM D696	10-5- 1/K	3
Electrical Properties			
Dielectric strength	ASTM D150	KV-mm	37
Dielectric loss factor	ASTM D150	-	0.008
Volume resistivity	ASTM D257	Ω.cm	10 ¹³
Surface resistivity	ASTM D257	Ω	10 ¹⁵
Dielectric constant	ASTM D149	-	3.1
Chemical Properties			
Water absorption	23°C 60%RH	%	0.8
Acid resistance	23°C 60%RH		+
Alkali resistance			+
Acid and alkali resistance			+
Resistance to sodium chlorate			+
Resistance to hot water	23°C 60%RH		+
Others			
Flammability	UL 94		V-2
Non toxic	EEC 90/128 FDA		+

Remarks:

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

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