

ENZINRON (GF PPS)

	METHOD	UNIT	VALUE
Mechanical Properties			
Specific gravity	ASTM D792	g/cm ³	1.63
Tensile yield strength	ASTM D638	Mpa	145
Breaking elongation	ASTM D638	%	2
Bending strength	ASTM 790	Mpa	180
Flexural modulus	ASTM 790	Mpa	6600
Shore hardness	ASTM D2240	D	90
Impact strength	ASTM D256	J/M	26
Thermal Properties			
Melting point	DSC	°C	280
Heat distortion temperature	ASTM D648	°C	260
Operating temperature	-	°C	230
Maximum operating temperature	-	°C	260
Thermal conductivity	DIN 52612- 1	W/(K-M)	0.35
Coefficient of linear thermal	ASTM D696	10 ⁻⁵ - 1/K	5
Electrical Properties			
Dielectric strength	ASTM D150	KV-mm	28
Dielectric loss factor	ASTM D150	-	0.004
Volume resistivity	ASTM D257	Ω.cm	10 ¹⁴
Surface resistivity	ASTM D257	Ω	10 ¹⁴
Dielectric constant	ASTM D149	-	4
Chemical Properties			
Water absorption	23°C 60%RH	%	0.02
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		0.25
Anti-ultraviolet	-		0

Remarks:

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