

ENZINRON (HDPE)

	METHOD	UNIT	VALUE
Mechanical Properties			
Specific gravity	ASTM D792	g/cm ³	0.96
Tensile yield strength	ASTM D638	Mpa	30
Breaking elongation	ASTM D638	%	500
Bending strength	ASTM 790	Mpa	35
Flexural modulus	ASTM 790	Mpa	1370
Shore hardness	ASTM D2240	D	75
Impact strength	ASTM D256	J/M	80
Thermal Properties			
Melting point	DSC	°C	120
Heat distortion temperature	ASTM D648	°C	80
Operating temperature	-	°C	90
Maximum operating temperature	-	°C	110
Thermal conductivity	DIN 52612- 1	W/(K-M)	15. 5
Coefficient of linear thermal	ASTM D696	10-5- 1/K	120
Electrical Properties			
Dielectric strength	ASTM D150	KV-mm	2. 4
Volume resistivity	ASTM D257	Ω.cm	10 ¹⁴
Surface resistivity	ASTM D257	Ω	10 ¹⁶
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		0
Resistance to hot water	23°C 60%RH		+
Others			
Flammability	UL 94		HB
Viscosity	-		0
Non toxic	EEC 90/128 FDA		+
Coefficient of friction	DIN 53375		0. 3
Anti-ultraviolet	-		0

Remarks:

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