Technical data sheet

ENZINRON (MoS2 POM)

	METHOD	UNIT	VALUE
Mechanical Properties			
Specific gravity	ASTM D792	g/cm3	1.46
Tensile yield strength	ASTM D638	Mpa	64
Breaking elongation	ASTM D638	%	20
Bending strength	ASTM 790	Mpa	84
Flexural modulus	ASTM 790	Mpa	2800
Shore hardness	ASTM D2240	D	85
Impact strength	ASTM D256	J/M	50
Thermal Properties			
Melting point	DSC	℃	190
Heat distortion temperature	ASTM D648	℃	130
Operating temperature	-	℃	100
Maximum operating temperature	-	℃	150
Thermal conductivity	DIN 52612- 1	W/(K-M)	0.33
Coefficient of linear thermal	ASTM D696	10-5- 1/K	1.3
Electrical Properties			
Dielectric strength	ASTM D150	KV-mm	-
Dielectric loss factor	ASTM D150	-	-
Volume resistivity	ASTM D257	Ω.cm	10^{14}
Surface resistivity	ASTM D257	Ω	10^{16}
Dielectric constant	ASTM D149	-	-
Chemical Properties			
Water absorption	23℃ 60%RH	%	0.5
Acid resistance	23℃ 60%RH		+
Alkali resistance			+
Acid and alkali resistance			+
Resistance to sodium chlorate			0
Resistance to aromatic compounds			+
Resistance to ketone	23℃ 60%RH		+
Resistance to hot water	23℃ 60%RH		+
Others			
Flammability	UL 94		HB
Viscosity	-		+
Non toxic	EEC 90/128 FDA		+
Coefficient of friction	DIN 53375		+
Anti-ultraviolet	-		0

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

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