Basic data of MICROPEARL

※Reference value

Grade		SP/GS	EX	EXH	EZ	KB	Test method
10%K value [N/mm^2]		4,400	5,300	5,700	1,600	6,060	Compression test equipment (Particle･3 μm) ,20℃
Recovery rate [%]		52	60	73	7	88	Compression test equipment (Particle･3 μm) ,20℃
Compressive elasticity modulus [kg/mm]		480 (380)	N.D. (460)	N.D. (500)	N.D. (140)	N.D. (530)	JIS K7208 (Block) *In parentheses, calculated value from 10%K-Value of 3μm particle
Specific gravity		1.19	1.11	1.11	1.18	1.29	Constant volume expansion method (Particle)
Coefficient of thermal expansion [/℃]		5.2×10^{-5} (30-60℃)	2.7×10^{-5} (30-60℃)	2.7×10^{-5} (30-60℃)	18.7×10^{-5} (50-200℃)	N.D.	TMA (Plate)
Thermal decomposition temp. [℃]		330	340	340	225	334	TG/DTA (Particle) , in air
Volume resistivery [Ωcm]		3.6×10^{14}	N.D.	N.D.	N.D.	N.D.	JIS K6911 (Plate)
Dielectric constant		2.9 (10^3 Hz)	N.D.	N.D.	N.D.	N.D.	JIS K6911 (Plate)
Dissipation factor		0.02	N.D.	N.D.	N.D.	N.D.	JIS K6911 (Plate)
Total light transmittance [%]		86.0	N.D.	N.D.	N.D.	N.D.	JIS K6714 (Plate)
Refractive index		1.57	N.D.	N.D.	N.D.	N.D.	Abbe refractometer (Plate)
Chemical resistance	Water	0.5 %	Equivalent to SP/GS	Equivalent to SP/GS	N.D.	Equivalent to SP/GS	20℃･10days (Plate or Particle)
(Increase in weight)	NaOH	-0.2 %			N.D.		1/10 N
	HCl	0.4 %			N.D.		1/10 N
	Acetone	1.0 %			N.D.		100%
	IPA	1.1 %			N.D.		100%
Containing ions		Below detection limit	Below detection limit	Below detection limit	Below detection limit	Below detection limit	Detection limit Na, Fe (≦2ppm) K, Ca, Cl (≦1ppm)