

MCPET DATA SHEET

Product Specifications

Grade	Thickness (mm)	Width (mm)	Length (m)	Product shape
RA (standard)	1.0	600	20.0	Rolled type (packed in a box)
RA (standard)	1.0	600	1.5	Sheet type (wrapped with cardboard)
RA (standard)	1.0	600	1.2	Sheet type (wrapped with cardboard)
RA (standard)	1.0	600	1.0	Sheet type (wrapped with cardboard)

Table of Physical Properties

	Item	Unit	MCPET	Test method
	Thickness	mm	1.0	JIS-K6767
	Density	g/cm ³	0.33	JIS-K7112
	Foam factor	time	4.0	Conforming to JIS-K7112
	Average bubble diameter	μm	10 or less	Conforming to ASTM-D3576-77
Optical characteristics	Total reflectance: 550 nm	%	99.0	Relative value compared to white barium sulphate sheet
	Diffuse reflectance: 550 nm	%	96.0	
Mechanical characteristics	Tensile strength : -20°C : 25°C : 200°C	MPa	23.0 16.2 10.2	JIS-K6767
	Elongation : -20°C : 25°C : 200°C	%	50 90 220	
	Modulus of elongation	MPa	97.3	
	Tear strength	N/cm	730	
	Bending strength	MPa	20.2	JIS-K7203
	Bending elastic modulus	MPa	1650	
	25% compression hardness	MPa	3.80	Conforming to JIS-K6767
Electrical characteristics	Dielectric constant: 1 MHz		1.45	JIS-K6911
	Dielectric loss tangent: 1 MHz		0.0075	
	Characteristic surface resistance	Ω	3 x 10 ¹¹	
	Breakdown voltage	kV/mm	43.3	JIS-C2110
Heat characteristics	Average coefficient of linear expansion (100 to 180°C)	1/°C	5.0 x 10 ⁻⁵	JIS-K7197
	Heat deformation temperature (Load of 100 g applied)	°C	177	Conforming to JIS-K7196
	Heat conductivity (60°C)	W/mK	0.06	Heat flow meter method
	Rate of change in dimension under heat : 100°C : 200°C	%	-1.0 -5.5	Conforming to JIS-K6767
Other	Water absorption (Method A)	mgcm ²	0.07	JIS-K6911