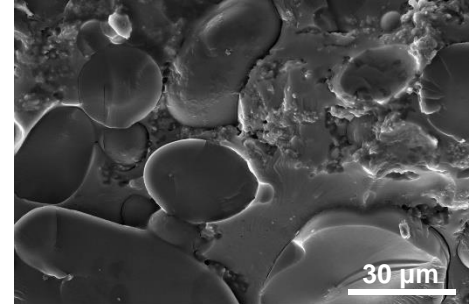
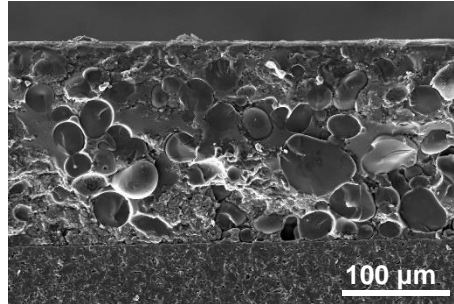
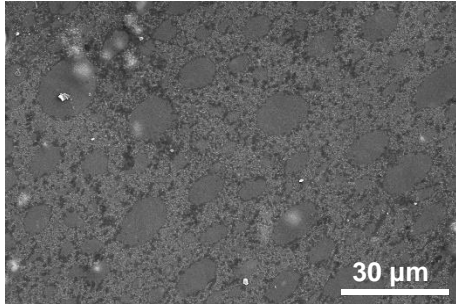
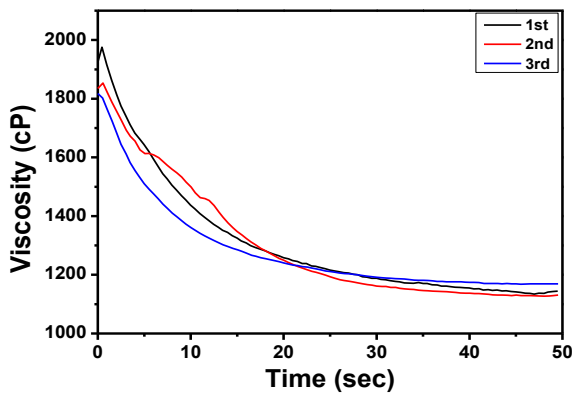


## Product Name: Hist-P

### 1. SEM Image



### 2. Viscosity



#### A. Equipment

- Name of equipment: Viscometer
- Manufacturer: Thermo Electron(Germany)
- Model: Haake VT550

#### B. Measuring conditions

- Measurement Temp.: 25 °C
- Measurement Method: DIN 53019 / ISO 3219
- Shear Rate:  $\gamma = 1000$  [1/s]

#### C. Results

(unit: cP)

Sample	1st	2nd	3rd	Average
<b>Hist-P</b>	1144.6	1131.3	1168.9	<b>1148.3</b>

### 3. Sheet Resistance & Electrical Conductivity

#### A. Equipment

- Name of equipment: High Resistivity Meter
- Manufacturer: Mitsubishi (Japan)
- Model: MCP-HT450

#### B. Measuring conditions

- Measurement Temp: 23°C (laboratory temp.)
- Probe type: URS type (standard value:  $4.97E+08 \Omega$ , measured value:  $4.98E+08 \Omega$ )
- Probe specification: 4 point, inter pin distance: 4mm, pin point: 2pi
- Measuring position: Random 5 point
- RCF:- Impressed voltage: 10 V
- Measuring range:  $1.00E-03 \sim 9.00E+07 \Omega$  (up to  $9.99E+07 \Omega$ )

#### C. Results

(unit:  $\Omega \cdot \text{cm}$ )

Sample	Thickness [cm]	1st	2nd	3rd	4th	5th	Average
<b>Hist-P</b>	0.0140	$2.39E+12$	$1.14E+12$	$4.76E+12$	$4.14E+12$	$1.70E+12$	<b><math>2.83E+12</math></b>