

KURARAY COAL™ YP Series

Fine Activated Carbon for Energy Storage

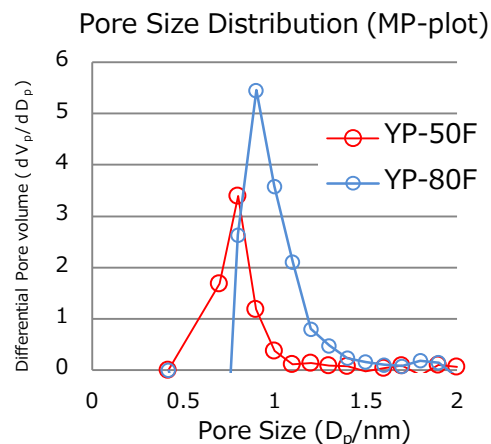
08/2019

Calgon Carbon was acquired by Kuraray in March 2018. With complementary products and services, the combined organization will continue to focus on providing the highest quality and most innovative activated carbon products to meet customer needs anywhere in the world. The trademarked product “KURARAY COAL” YP Series is a **coconut-shell** activated carbon product that is the industry standard for high performing Electron Double Layer Capacitors (EDLC) and is designed to exhibit excellent characteristics, such as high performance, high reliability, and stable quality. Kuraray's advanced manufacturing facility is poised to meet the growing demand of the energy storage market with high performing products.

Basic Properties of representative grades

Items	Method	YP-50F	YP-80F
Surface Area (m ² /g)	BET	1,692	2,271
Bulk Density (g/mL)	JIS	0.30	0.18
Moisture (%)	JIS	0.5	0.5
Ash (%)	JIS	0.2	0.3
pH (-)	JIS	8.4	8.7
Metal (Fe) (ppm)	ICP	11.0	15.0
Size Distribution (μm)	Laser diffraction scattering		
D10		1.9	1.9
D50		5.6	5.6
D90		9.7	9.8

*The above data are not product specifications and are provided as typical properties.



Internal Measurement

Performance data (Capacity and resistance at room temp. and low temp.)

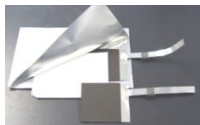
Initial Capacitance

Internal Measurement

	Weight Capacitance (F/g·AC)		Volumetric Capacitance (F/cc)	
	25°C	-30°C	25°C	-30°C
YP-50F	28.6	28.6	14.8	14.8
YP-80F	31.7	31.8	11.9	11.9

Test condition (Laminate Cell)

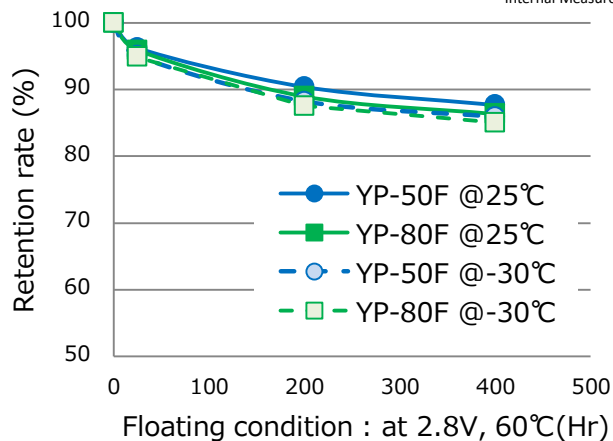
- Capacitance (25°C, -30°C)
Charge : CC-CV(2.8V),
Discharge : CC(25mA/Cell)
- Electrolyte : 1.0M TEABF₄/AN



*Electrode : 3x3cm

Floating Performance

Internal Measurement



Contact Information

Contact in the U.S.

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Manufacturing

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