

# NEOFLON™ AC-5820

Perfluoroalkoxy

DAIKIN AMERICA, INC.

## Message:

NEOFLON Coating Powder is a high performance material made from fluoropolymer resin.

Two kinds of NEOFLON Coating Powders, NEOFLON FEP, and PFA Coating Powder, are available.

NEOFLON FEP Coating Powder is a fine powder made of tetrafluoroethylene and hexafluoropropylene copolymer and

NEOFLON PFA Coating Powder is a fine powder made of tetrafluoroethylene and perfluoroalkylvinylether copolymer.

NEOFLON FEP and PFA Coating Powder are low in melt viscosity and excellent in melt fluidity which can give a coating free of pinholes.

NEOFLON FEP and PFA are ideal for use as corrosion resistant linings because of their excellent thermal and chemical resistance properties.

General Information	
Features	Combustion Resistant
	Good Chemical Resistance
	Good Corrosion Resistance
	Good Electrical Properties
	Good Flow
	Good Weather Resistance
	High ESCR (Stress Crack Resist.)
	High Purity
	Low Viscosity
Uses	Coating Applications
	Liners
Appearance	White
Forms	Powder
Processing Method	Coating
	Rotational Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.12 to 2.17	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.75 to 1.05	g/cm <sup>3</sup>	JIS K6891
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	5.0 to 7.0	g/10 min	ASTM D3307
Particle Size <sup>1</sup>	150 to 250	μm	
Adhesion Strength - Peel Test <sup>2</sup>	4.0 to 6.0	kN/m	
Contact Angle <sup>3</sup>			
Hexadecane	65.0	°	
Water	102 to 106	°	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength	19.6 to 31.4	MPa	JIS K6888
Tensile Elongation (Break)	250 to 350	%	JIS K6888
Coefficient of Friction (vs. Itself - Static)	0.050 to 0.080		Internal Method
Taber Abrasion Resistance (CS-17 Wheel)	5.00 to 15.0	mg	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	303 to 313	°C	ASTM D3307

#### NOTE

1. Laser Diffraction  
1) steel substrate are roughened with 80 ~ 120 mesh sand  
2) applied two coat primer EK-1083G,EK-1883GB3) applied NEOFロン Coating Powder into 500 μm thickness.
- 2.
3. Goniometer

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#### Recommended distributors for this material

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