

## Daikin NEOFLON AP-201 PFA Pellets

**Categories:** [Polymer](#); [Thermoplastic](#); [Fluoropolymer](#); [PFA](#); [Polyperfluoroalkoxyethylene](#), [Molded/Extruded](#)



**Material Notes:** NEOFLON PFA pellets have good melt flowability, and can be processed in the same manner as other thermoplastic resins.

**Applications:** Complicated injection molded parts requiring high melt flow to fill, thin wall wire insulation, etc.

Information provided by Daikin Industries.

**Vendors:** [Click here to view all available suppliers for this material.](#)

Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Specific Gravity	2.12 - 2.17 g/cc	2.12 - 2.17 g/cc	at 25°C
Bulk Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	
Water Absorption	<= 0.010 % @Thickness 8.50 mm, Time 86400 sec	<= 0.010 % @Thickness 0.335 in, Time 24.0 hour	ASTM D570
Viscosity	1.00e+6 - 1.00e+7 cP @Temperature 380 °C	1.00e+6 - 1.00e+7 cP @Temperature 716 °F	Melt viscosity
Linear Mold Shrinkage	0.040 cm/cm	0.040 in/in	
Melt Flow	20 - 30 g/10 min @Load 5.00 kg, Temperature 372 °C	20 - 30 g/10 min @Load 11.0 lb, Temperature 702 °F	
Deformation	2.4 % 2.7 %	2.4 % 2.7 %	6.7 MPa load, at 100°C, 24 hrs; ASTM D621 13.7 MPa load, at 25°C, 24 hrs; ASTM D621
Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	
Tensile Strength at Break	27.0 - 35.0 MPa	3920 - 5080 psi	ASTM D638
Elongation at Break	280 - 400 %	280 - 400 %	ASTM D638
Tensile Modulus	0.451 GPa	65.4 ksi	ASTM D638
Flexural Modulus	0.647 - 0.686 GPa	93.8 - 99.5 ksi	ASTM D790
Compressive Strength	5.00 - 6.00 MPa @Temperature 25.0 °C	725 - 870 psi @Temperature 77.0 °F	1% deformation; ASTM D695
Izod Impact, Unnotched	NB	NB	ASTM D256
Coefficient of Friction	0.040 - 0.060	0.040 - 0.060	
Coefficient of Friction, Static	0.050	0.050	Coated-steel surface
Taber Abrasion, mg/1000 Cycles	<= 96.75	<= 96.75	9.8 N load, cs-10 wheel
Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1.00e+18 ohm-cm	<= 1.00e+18 ohm-cm	ASTM D257
Dielectric Constant 	2.1 @Frequency 1000 Hz	2.1 @Frequency 1000 Hz	ASTM D150
	2.1 @Frequency 1e+6 Hz	2.1 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm @Thickness 3.20 mm	508 kV/in @Thickness 0.126 in	Short time; ASTM D149
Dissipation Factor 	0.000010 @Frequency 1000 Hz	0.000010 @Frequency 1000 Hz	ASTM D150
	0.00030 @Frequency 1e+6 Hz	0.00030 @Frequency 1e+6 Hz	ASTM D150
Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C @Temperature 23.0 - 60.0 °C	66.7 µin/in-°F @Temperature 73.4 - 140 °F	ASTM D696
Melting Point	302 - 310 °C	576 - 590 °F	
Maximum Service Temperature, Air	260 °C	500 °F	Continuous use
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 95 %	>= 95 %	ASTM D2863
Descriptive Properties			
Chemical Resistance		Excellent	
Contact Angle		115	Angle to level
Weatherability		Excellent	

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