

Daikin NEOFLON AP-210 PFA Pellets

Category : 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: Injection molded parts, wire insulation, etc. Information provided by Daikin Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Daikin-NEOFLON-AP-210-PFA-Pellets.php

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 ³	
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	9.0 - 18 g/10 min @Load 5.00 kg, Temperature 372 °C	9.0 - 18 g/10 min @Load 11.0 lb, Temperature 702 °F	
Deformation	2.4 %	2.4 %	6.7 MPa load, at 100°C, 24 hrs; ASTM D621
	2.7 %	2.7 %	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

Mechanical Properties	Metric	English	Comments
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

Thermal Properties	Metric	English	Comments
CTE, linear	120 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 23.0 - 60.0 $^{\circ}\text{C}$	66.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 73.4 - 140 $^{\circ}\text{F}$	ASTM D696
Melting Point	302 - 310 $^{\circ}\text{C}$	576 - 590 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	260 $^{\circ}\text{C}$	500 $^{\circ}\text{F}$	Continuous use
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 95 %	>= 95 %	ASTM D2863

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

Descriptive Properties	Value	Comments
Chemical Resistance	Excellent	
Contact Angle	115	Angle to level
Weatherability	Excellent	

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