

NEOFLON™ AP-230

Perfluoroalkoxy
DAIKIN AMERICA, INC.

Message:

NEOFLON PFA is a copolymer of tetrafluoroethylene and perfluoroalkyl vinyl ether, NEOFLON PFA is a compound of carbon atoms and fluorine atoms in which a perfluoroalkoxy radical is bonded to the carbon chain in the following molecular structure.

NEOFLON PFA has better mechanical strength at high temperatures than NEOFLON FEP, and has excellent moldability for easy of processing by extrusion, compression, blow, transfer, and injection molding methods. Due to the high bonding strength of the carbon, fluorine and oxygen atoms, NEOFLON PFA demonstrates nearly the same outstanding capabilities as PTFE in temperatures ranging -200°C ~+260°C. NEOFLON PFA has excellent transparency for use in melt-flow processing.

General Information			
Features	Copolymer		
	Flame Retardant		
	Good Corrosion Resistance		
	Good Electrical Properties		
	Good Moldability		
	Good Weather Resistance		
	High Clarity		
	High Temperature Strength		
	Low Friction		
Uses	Liners		
Appearance	Colors Available		
	Translucent		
Forms	Pellets		
Processing Method	Compression Molding		
	Extrusion		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.14 to 2.16	g/cm ³	ASTM D792
Apparent Density	1.00 to 1.40	g/cm ³	JIS K6891
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	1.5 to 2.5	g/10 min	ASTM D1238
Water Absorption (Saturation)	< 0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60 to 70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	30.4 to 34.3	MPa	JIS K6891
Tensile Elongation (Break)	300 to 400	%	JIS K6891
Flexural Modulus	580 to 690	MPa	ASTM D790

Compressive Modulus	490 to 590	MPa	ASTM D695
Compressive Strength			ASTM D695
1% Strain	4.90 to 5.90	MPa	
25% Strain	31.4 to 33.3	MPa	
Coefficient of Friction (vs. Steel - Static)	0.040 to 0.050		ASTM D1894
Deformation Under Load			ASTM D621
25°C, 14 MPa ¹	8.00 to 9.00	%	
25°C, 14 MPa ²	2.50 to 3.00	%	
100°C, 6.9 MPa ³	8.50 to 9.50	%	
100°C, 6.9 MPa ⁴	2.00 to 3.00	%	
Flexural Strength	No break		ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	300 to 310	°C	ASTM D4591
CLTE - Flow (20 to 100°C)	1.2E-4	cm/cm/°C	ASTM D696
Specific Heat	1050	J/kg/°C	
Thermal Conductivity	0.26	W/m/K	ASTM C177
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.57 mm)	V-0		UL 94
Oxygen Index (1.57 mm)	> 95	%	ASTM D2863
Fill Analysis	Nominal Value	Unit	
Melt Viscosity (380°C)	2.00E+6 to 2.50E+7	mPa·s	
NOTE			
1.	Total deformation		
2.	Compressive creep		
3.	Total deformation		
4.	Compressive creep		

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