

# NEOFLON™ AP-231SH

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 Purity High Temperature Strength Low Friction
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Uses	Semiconductor Molding Compounds
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Appearance	Colors Available Translucent
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Forms	Pellets
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Processing Method	Compression Molding Extrusion
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Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.14 to 2.16	g/cm <sup>3</sup>	ASTM D792
Apparent Density	1.00 to 1.40	g/cm <sup>3</sup>	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
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)	20000 to 250000	mPa·s	

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#### Recommended distributors for this material

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