NEOFLON™ AP-211SH

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 ESCR (Stress Crack Resist.)		
	High Purity		
	High Temperature Strength		
	Low Friction		
Uses	Semiconductor Molding Compounds		
Appearance	Colors Available		
	Translucent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	2.14 to 2.16	g/cm³	ASTM D792
Apparent Density	1.00 to 1.40	g/cm³	JIS K6891
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	10 to 18	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)	2.00E+6 to 2.50E+7	mPa·s

Recommended distributors for this material

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WECHAT