NEOFLON™ EFEP RP-5000

Fluoropolymer

DAIKIN AMERICA, INC.

Message:

EFEP RP-5000 is a fluoropolymer combining the excellent physical and chemical properties derived from ETFE together with a low processing temperature that is more compatible with engineering resins and conventional thermoplastic polymers. This resin adheres well to many kinds of plastics and inorganic materials (glass, metals) without adhesive or etching.
EFEP RP-5000 can be easily co-extruded into multi-layer tubing or films and offers the following advantages for a wide range of applications found in the automotive, oil and gas, chemical processing, semiconductor and film industries:
Very good permeation resistance to hydrocarbons
Excellent chemical resistance
High purity
Improved heat aging resistance
Co-extrusion with other resins (nylons, EVOH, modified PE, and ETFE) without adhesive or etching
Superior adhesion strength
Excellent weathering
Cold impact resistance

General Information	
Features	High purity Good heat aging resistance Good adhesion Low temperature impact resistance Good chemical resistance Good weather resistance Hydrocarbon resistance
Uses	Semiconductor molding compound Films Multilayer film Pipe fittings Application in Automobile Field
Forms	Particle
Processing Method	Co-extrusion molding Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.74	g/cm^3	ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/5.0 kg)	20 - 30	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	36.0 - 56.0	MPa	ASTM D638
Tensile Elongation (Break)	360 - 520	%	ASTM D638

Flexural Modulus	1000	MPa	ASTM D790
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature	195	°C	DSC
Additional Information	**Nominal Value**	**Unit**	
Permeation Resistance - Average			
60°C [1]	2.0	g·mm/m²/atm/24 hr	
60°C [2]	6.5	g·mm/m²/atm/24 hr	
Injection	**Nominal Value**	**Unit**	
Rear Temperature	200 - 220	°C	
Middle Temperature	220 - 240	°C	
Front Temperature	250 - 270	°C	
Nozzle Temperature	250 - 270	°C	
Mold Temperature	30.0 - 100	°C	
Injection Pressure	50.0 - 100	MPa	
Injection instructions			
Injection Speed: 3-15 mm/sCooling Time: 10-40 sec			
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	260	°C	
Cylinder Zone 3 Temp.	260	°C	
Cylinder Zone 5 Temp.	260	°C	
Adapter Temperature	265	°C	
Die Temperature	280	°C	
Extrusion instructions			
Cylinder Diameter: 30 mmScrew L/D: 24Compression Ratio: 3Die I.D.: 16 mmTip O.D.: 12 mm			
NOTE			
1.	100% Methanol		
2.	CE-10		

Recommended distributors for this material

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