

NEOFLON™ EFEP RP-5000AS

Fluoropolymer

DAIKIN AMERICA, INC.

Message:

EFEP RP-5000AS is a static dissipating fluoropolymer specifically designed for the automotive industry. This resin combines 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. EFEP RP-5000AS adheres well to many kinds of plastics without adhesive or etching.

EFEP RP-5000AS can be easily co-extruded into multi-layer tubing and offers the following advantages for automotive applications:

Very good permeation resistance to hydrocarbons

Excellent chemical resistance

Improved heat aging resistance

Co-extrusion with other resins (nylons, EVOH, modified PE, and ETFE) without adhesive or etching

Superior adhesion strength

Cold impact resistance

General Information			
Features	Antistatic property		
	Good heat aging resistance		
	Good adhesion		
	Low temperature impact resistance		
	Good chemical resistance		
	Hydrocarbon resistance		
Uses	Pipe fittings		
	Application in Automobile Field		
	Fuel line		
Forms	Particle		
Processing Method	Co-extrusion molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.76	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/5.0 kg)	2.0 - 8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	29.0 - 50.0	MPa	ASTM D638
Tensile Elongation (Break)	200 - 350	%	ASTM D638
Flexural Modulus	1400	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	195	°C	DSC
Additional Information	Nominal Value	Unit	
Permeation Resistance - Average ¹ (60°C)	6.5	g · mm/m ² /atm/24 hr	
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. Ce-10

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