

# NEOFLON™ EFEP RP-4020

Fluoropolymer  
DAIKIN AMERICA, INC.

Message:

EFEP RP-4020 and RP-4040 are fluoropolymers combining the excellent physical and chemical properties derived from ETFE together with the very low melting temperature characteristic of a conventional thermoplastic. These resins have a high transparency and adhere well to many kinds of plastics and inorganic materials (glass, metals) without adhesive or etching.

EFEP RP-4020 and RP-4040 offer the following advantages for a wide range of applications found in the chemical processing, semiconductor and film industries:

- Very low processing temperature and excellent thermal stability
- High transparency
- Excellent chemical resistance
- High purity
- Excellent weathering
- Improved heat sealing properties
- Low mold shrinkage (injection molding)
- Co-extrusion with other resins (nylons, EVOH, modified PE, and ETFE) without adhesive or etching

General Information			
Features	High purity		
	Good heat sealability		
	Good adhesion		
	Good chemical resistance		
	Good weather resistance		
	Definition, high		
	Thermal stability, good		
	Low shrinkage		
Uses	Films		
	Multilayer film		
	Pipe fittings		
	Bottle		
	Container		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Co-extrusion molding		
	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.74	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/5.0 kg)	25 - 50	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength (Yield)	45.0	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Flexural Modulus	1300	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	160	°C	DSC
Optical	Nominal Value	Unit	Test Method
Transmittance (100 μm, 250 nm)	87.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Rear Temperature	180 - 200	°C	
Middle Temperature	200 - 220	°C	
Front Temperature	230 - 250	°C	
Nozzle Temperature	230 - 250	°C	
Mold Temperature	30.0 - 80.0	°C	
Injection Pressure	50.0 - 100	MPa	
Injection instructions			

Injection speed: 3-15 mm/s Cooling time: 10-40 sec

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#### Recommended distributors for this material

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