

Daikin NEOFLON RP-4040 EFEP Pellets

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE , Modified ETFE, Unreinforced , FEP

Material Notes:

NEOFLON EFEP is an ETFE based fluoropolymer combining the excellent physical properties derived from ETFE together with a low processing temperature that is more compatible with conventional thermoplastic polymers. NEOFLON EFEP resins adhere well to many kinds of plastics (nylons, EVOH, modified PE, ETFE) and inorganic materials (glass, metals) without adhesive or etching. These resins have a very high transparency and are suitable for extrusion and co-extrusion, injection molding and blow molding applications. Processing Methods: Extrusion, blow molding. Applications: Transparent tubing, pipes, bottles, containers, etc. Information provided by Daikin Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Daikin-NEOFLON-RP-4040-EFEP-Pellets.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.74 g/cc	1.74 g/cc	at 25°C
Water Absorption	<= 0.10 % @Thickness 8.50 mm, Time 86400 sec	<= 0.10 % @Thickness 0.335 in, Time 24.0 hour	ASTM D570
Oxygen Transmission	70.0 cc-mm/m ² -24hr-atm	178 cc-mil/100 in ² -24hr-atm	at 25°C
Nitrogen Transmission	20.0 cc-mm/m ² -24hr-atm	50.8 cc-mil/100 in ² -24hr-atm	at 25°C
Viscosity	1.00e+6 - 1.00e+7 cP @Temperature 300 - 330 °C	1.00e+6 - 1.00e+7 cP @Temperature 572 - 626 °F	Melt viscosity
Linear Mold Shrinkage	0.030 - 0.040 cm/cm	0.030 - 0.040 in/in	
Melt Flow	3.0 - 8.0 g/10 min	3.0 - 8.0 g/10 min	
Deformation	2.3 %	2.3 %	13.7 MPa load, at 25°C, 24 hrs; ASTM D621
	5.4 %	5.4 %	6.7 MPa load, at 100°C, 24 hrs; ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	
Tensile Strength at Break	40.0 - 50.0 MPa	5800 - 7250 psi	ASTM D638
Elongation at Break	420 - 460 %	420 - 460 %	ASTM D638
Tensile Modulus	0.490 - 0.784 GPa	71.1 - 114 ksi	ASTM D638

Mechanical Properties	Metric	English	Comments
Compressive Strength	11.0 MPa @Temperature 25.0 °C	1600 psi @Temperature 77.0 °F	1% deformation; ASTM D695
Izod Impact, Unnotched	NB	NB	ASTM D256
Coefficient of Friction	0.055 - 0.078	0.055 - 0.078	
Coefficient of Friction, Static	0.060	0.060	Coated-steel surface
Taber Abrasion, mg/1000 Cycles	<= 139.2	<= 139.2	9.8 N load, cs-10 wheel

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 90.0 µm/m-°C @Temperature 23.0 - 60.0 °C	27.8 - 50.0 µin/in-°F @Temperature 73.4 - 140 °F	ASTM D696
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft²-°F	ASTM C177
Melting Point	160 °C	320 °F	
Maximum Service Temperature, Air	150 °C	302 °F	Continuous use
Flammability, UL94	V-0	V-0	
Oxygen Index	31 %	31 %	ASTM D2863

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1.00e+16 ohm-cm	<= 1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	2.6 @Frequency 1000 Hz	2.6 @Frequency 1000 Hz	ASTM D150
	2.6 @Frequency 1e+6 Hz	2.6 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	16.0 kV/mm @Thickness 3.20 mm	406 kV/in @Thickness 0.126 in	Short time; ASTM D149
Dissipation Factor	0.00080 @Frequency 1000 Hz	0.00080 @Frequency 1000 Hz	ASTM D150

Electrical Properties	0.0050 Metric	0.0050 English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Descriptive Properties	Value	Comments
Chemical Resistance	Excellent	
Contact Angle	96	Angle to level
Weatherability	Excellent	

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