

Daikin NEOFLON NP-30 FEP Pellets

Category : Polymer , Thermoplastic , Fluoropolymer , FEP , Fluorinated Ethylene Propylene (FEP), Molded/Extruded , PFA

Material Notes:

NEOFLON FEP molding materials are supplied as translucent white pellets for melt flow processes. Processing Methods: Extrusion molding. Applications: Heavy wall wire insulation, tubes, cable jacketing, etc. Information provided by Daikin Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Daikin-NEOFLON-NP-30-FEP-Pellets.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.12 - 2.17 g/cc	2.12 - 2.17 g/cc	ASTM D792
Bulk Density	1.20 g/cc	0.0434 lb/in ³	
Water Absorption	<= 0.010 % @Thickness 8.50 mm, Time 86400 sec	<= 0.010 % @Thickness 0.335 in, Time 24.0 hour	ASTM D570
Oxygen Transmission	320 cc-mm/m ² -24hr-atm	812 cc-mil/100 in ² -24hr-atm	at 25°C
Nitrogen Transmission	104 cc-mm/m ² -24hr-atm	263 cc-mil/100 in ² -24hr-atm	at 25°C
Viscosity	4.00e+6 - 4.00e+7 cP @Temperature 380 °C	4.00e+6 - 4.00e+7 cP @Temperature 716 °F	Melt viscosity
Linear Mold Shrinkage	0.030 - 0.060 cm/cm	0.030 - 0.060 in/in	
Melt Flow	2.0 - 3.8 g/10 min @Load 5.00 kg, Temperature 372 °C	2.0 - 3.8 g/10 min @Load 11.0 lb, Temperature 702 °F	
Deformation	3.0 %	3.0 %	13.7 MPa load, at 25°C, 24 hrs; ASTM D621
	5.0 %	5.0 %	6.7 MPa load, at 100°C, 24 hrs; ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	
Tensile Strength at Break	19.0 - 22.0 MPa	2760 - 3190 psi	ASTM D638
Elongation at Break	250 - 330 %	250 - 330 %	ASTM D638
Tensile Modulus	0.343 GPa	49.7 ksi	ASTM D638
Flexural Modulus	0.539 - 0.637 GPa	78.2 - 92.4 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
Compressive Strength	5.00 - 6.00 MPa	725 - 870 psi	1% deformation; ASTM D695
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Izod Impact, Unnotched	NB	NB	ASTM D256
Coefficient of Friction	0.040 - 0.060	0.040 - 0.060	
Coefficient of Friction, Static	0.050	0.050	Coated-steel surface
Taber Abrasion, mg/1000 Cycles	<= 24	<= 24	Calculated using estimated density, 9.8 N load, cs-10 wheel

Thermal Properties	Metric	English	Comments
CTE, linear	83.0 - 105 µm/m-°C	46.1 - 58.3 µin/in-°F	ASTM D696
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft²-°F	ASTM C177
Melting Point	265 - 275 °C	509 - 527 °F	
Maximum Service Temperature, Air	200 °C	392 °F	Continuous use
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 95 %	>= 95 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1.00e+18 ohm-cm	<= 1.00e+18 ohm-cm	ASTM D257
Dielectric Constant	2.1	2.1	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	2.1	2.1	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	20.0 - 24.0 kV/mm	508 - 610 kV/in	Short time; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.000060	0.000060	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.00050	0.00050	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Descriptive Properties	Value	Comments
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Chemical Resistance Descriptive Properties	Excellent Value	Comments
Contact Angle	114	Angle to level
Weatherability	Excellent	

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