

Daikin NEOFLON EP-541 ETFE Pellets

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

Material Notes:

Due to its excellent melt flow properties, NEOFLON ETFE can be processed in the same way as other thermoplastic resins. NEOFLON ETFE is also highly suited to such secondary processes as welding, flaring post-forming processes, and others. Applications: Heavy wall wire insulation, cable jacketing, valve fittings, pipes, etc. Information provided by Daikin Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Daikin-NEOFLON-EP-541-ETFE-Pellets.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 - 1.86 g/cc	1.70 - 1.86 g/cc	ASTM D792
Bulk Density	1.00 g/cc	0.0361 lb/in ³	
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	104 cc-mm/m ² -24hr-atm	263 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	4.0 - 8.0 g/10 min @Load 5.00 kg, Temperature 372 °C	4.0 - 8.0 g/10 min @Load 11.0 lb, Temperature 702 °F	
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	1600 psi	1% deformation; ASTM D695
	@Temperature 25.0 °C	@Temperature 77.0 °F	
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 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	27.8 - 50.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	260 °C	500 °F	
Maximum Service Temperature, Air	150 °C	302 °F	Continuous use
Flammability, UL94	V-0	V-0	
Oxygen Index	31 %	31 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1.00e+16 ohm-cm	<= 1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	2.6	2.6	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	2.6	2.6	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	16.0 kV/mm	406 kV/in	Short time; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.00080	0.00080	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0050	0.0050	ASTM D150
	@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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