

3M Dyneon™ ET 6235Z Fluorothermoplastic Granules

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE

Material Notes:

ET 6235 is a melt-processable fluoroplastic consisting mainly of alternating tetrafluoroethylene and ethylene monomer units (ETFE).

Applications: Its excellent properties make Dyneon ET 6235Z ideal for use in a wide variety of industries, including applications in the electronics, chemical processing, laboratory testing equipment and outdoor architectural structure industries. It can be easily fabricated into films, extruded thin-walled tubing and injection molded parts. This partially crystalline fluorothermoplastic offers a valuable combination of properties: Wide service temperature range -200° to +150°C Low flammability Excellent electrical and mechanical properties Very good resistance to solvents and chemicals Extremely high resistance to outdoor weathering High light transmission in the visible and UV ranges Non-stick characteristics Excellent tear resistance Low permeability Good resistance to radiation Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-ET-6235Z-Fluorothermoplastic-Granules.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.73 g/cc	1.73 g/cc	ASTM D792
Melt Index of Compound	10 g/10 min @Load 5.00 kg, Temperature 297 °C	10 g/10 min @Load 11.0 lb, Temperature 567 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	ASTM D638
Tensile Strength, Yield	25.0 MPa	3630 psi	ASTM D638
Elongation at Break	425 %	425 %	ASTM D638
Flexural Modulus	1.10 GPa	160 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	267 °C	513 °F	ASTM D4591
Maximum Service Temperature, Air	150 °C	302 °F	DIN 57207 part 6
Minimum Service Temperature, Air	-200 °C	-328 °F	
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 30 %	>= 30 %	ASTM D2863

Optical Properties	Metric	English	Comments
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Optical Properties	^{≥ 90 %} Metric	^{≥ 90 %} English	Comments
Transmission, Visible	@Wavelength 380 - 780 nm, Thickness 0.100 mm	@Wavelength 380 - 780 nm, Thickness 0.00394 in	mm

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.58	2.58	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	150 kV/mm	3810 kV/in	0.1 mm; ASTM D149

Descriptive Properties	Value	Comments
Flame Rating (110 µm film)	Building Material Class B1	

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