Tefzel® HT-2160

Ethylene Tetrafluoroethylene Copolymer

DuPont Fluoropolymers

Message:

DuPont™ Tefzel ® fluoropolymer HT-2160 resin combines the chemical and high-temperature resistance of Tefzel ® with antistatic levels of electrical conductivity.
Tefzel ® HT-2160 and the other Tefzel ® fluoropolymers are melt processible, modified copolymers of ethylene and tetrafluoroethylene. They are high-performance resins that can be processed at relatively high rates compared to other fluoropolymer resins. They are mechanically tough and offer an excellent balance of properties.
Tefzel ® HT-2160 can perform successfully in applications where other thermoplastics are lacking in mechanical toughness, broad thermal capability, ability to meet difficult environmental conditions, or limited by fabricating problems.
Properly processed products made from virgin Tefzel ® HT-2160 are inert to most solvents and chemicals, hydrolytically stable, and weather resistant. The recommended upper service temperature is 150°C (302°F); useful properties are retained at cryogenic ranges. Mechanical properties include outstanding impact strength and cut-through and abrasion resistance.
Typical End Products
Tefzel ® HT-2160 resin can be used to manufacture extruded tubing, pipe, and other profiles for hose; linings of components used in the chemical processing industries; industrial film; injection and blow-molded articles requiring superior electrical, chemical, and thermal properties.

General Information	
Features	Conductivity
	Copolymer
	Solvent resistance
	Impact resistance, high
	Good wear resistance
	Good chemical resistance
	Good weather resistance
	Good toughness
	Hydrolysis stability
Uses	Films
	Lining
	Blow molding applications
	Pipe
	Piping system
	Pipe fittings
	Profile
Forms	Particle
Processing Method	Blow molding
	Pipeline extrusion molding
	Extrusion
	Resin transfer molding
	Profile extrusion molding
	Compression molding

Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (297°C/5.0 kg)	2.3	g/10 min	ASTM D3159
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (23°C)	34.5	MPa	ASTM D3159
Tensile Elongation (Break, 23°C)	200	%	ASTM D3159
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature	255 - 280	°C	ASTM D3159
Maximum Service Temperature	150	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity [1]	7.0	ohms·cm	ASTM D257
Additional Information			
Weather and Chemical Resistance: Excellent			
NOTE			
1.	Volume resistivity as measured on compression molded plaques. Resistivity is very sensitive to processing technique. Injection molded plaques are typically higher.		

Recommended distributors for this material

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