# Tefzel® 750

### Ethylene Tetrafluoroethylene Copolymer

#### **DuPont Fluoropolymers**

#### Message:

DuPont<sup>™</sup> Tefzel ® fluoropolymer resins offer mechanical strength and toughness along with resistance to heat and chemicals. In addition, they provide easy processing, high specific dielectric strength, and a low coefficient of friction. For these reasons, Tefzel ® resins are widely used to make compact wire and cable constructions that provide long, reliable service in demanding environments.

Tefzel ® 750 retains the traditional characteristics of Tefzel ® resins while providing some new property advantages, including increased flexibility and improved retention of properties after aging at elevated temperatures, higher limiting oxygen index, and long-term service life at higher temperatures than other Tefzel ® resins.

Underwriters Laboratories, Inc. (UL) has rated wire insulated with Tefzel ® 750 (10 mil for 600V, 6 mil for 300V) for service in appliances at a maximum continuous operating temperature of 200°C (392°F). This rating was determined under the guidelines of UL Subject 758 for appliance wiring material. Upper service temperatures for other applications should be determined under the guidelines for those applications. Temperature ratings may not be the same as the rating for appliance wire because the test procedures are different.

General Information			
UL YellowCard	E54681-244670		
Features	Copolymer		
	Good Chemical Resistance		
	Good Flexibility		
	Good Processability		
	Good Toughness		
	High Heat Resistance		
	Low Friction		
Uses	Electronic Insulation		
	Wire & Cable Applications		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75 to 1.79	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (297°C/5.0 kg)	7.0	g/10 min	ASTM D3159
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D1708
23℃	37.9	MPa	
140°C	11.4	MPa	
160°C	8.62	MPa	
180°C	6.21	MPa	
200°C	3.45	MPa	
Tensile Elongation			ASTM D1708
Break, 23°C	300	%	
Break, 140°C	600	%	

Break, 160°C	650	%	
Break, 180°C	600	%	
Break, 200°C	600	%	
Flexural Modulus	645	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	219 to 254	°C	ASTM D3159
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	34	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	288	°C	
Cylinder Zone 2 Temp.	316	°C	
Cylinder Zone 3 Temp.	321	°C	
Adapter Temperature	321	°C	
Melt Temperature	332 to 335	°C	
Die Temperature	332	°C	

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#### Recommended distributors for this material

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