

ACLAR® 33C

Polychlorotrifluoroethylene
Honeywell

Message:

ACLAR® 33C is a Polychlorotrifluoroethylene (PCTFE) product. It can be processed by thermoforming and is available in North America. Applications of ACLAR® 33C include coating applications, food contact applications, medical/healthcare, military applications and packaging.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Clarity
- Flame Retardant
- Good Dimensional Stability

General Information			
UL YellowCard	E236381-230359		
Features	Electrically Insulating		
	Flame Retardant		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Flexibility		
	Good Heat Seal		
	Good Sterilizability		
	High Clarity		
	Moisture Barrier		
	Terpolymer		
Uses	Laminates		
	Military Applications		
	Packaging		
	Pharmaceuticals		
Agency Ratings	FDA 21 CFR 177.1380		
Appearance	Clear/Transparent		
Forms	Film		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	2.12	g/cm ³	ASTM D1505
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	19	µm	ASTM D882
Secant Modulus			
1% Secant, MD	1340	MPa	
1% Secant, TD	1340	MPa	

Tensile Strength			ASTM D882
MD : Yield	72.4	MPa	
TD : Yield	46.5	MPa	
Tensile Elongation			ASTM D882
MD : Break	100	%	
TD : Break	100	%	
Dart Drop Impact	57	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	12	g	
TD	33	g	
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity	0.20	W/m/K	ASTM C177
RTI Elec (0.0760 mm)	50.0	°C	UL 746
RTI Str (0.0760 mm)	50.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.760 mm)	VTM-0		UL 94
Oxygen Index	100	%	ASTM D2863
Optical	Nominal Value	Unit	Test Method
Haze	1.0	%	ASTM D1003

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