

Aclon™ 1090

Polychlorotrifluoroethylene
Honeywell

Message:

Aclar Flex 180 is a 18-micron (0.70-mil) CTFE homopolymer high performance barrier film for the pharmaceutical and medical markets. Its high barrier and excellent dimensional stability make it ideal for flexible packaging applications such as pouches, overwraps, and lidding.

General Information			
Features	Good disinfection		
	Definition, high		
	Barrier resin		
Uses	Packaging		
	Bottle		
	Container		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	2.14	g/cm ³	ISO 1183
Apparent Density	1.16	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (288°C/2.16 kg)	8.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	42.7	MPa	ISO 527-2
Fracture	26.2	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	7.0	%	ISO 527-2
Fracture	16	%	ISO 527-2
Flexural Modulus	1600	MPa	ISO 178
Flexural Stress	61.0	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Water Vapor Transmission Rate (25 µm, 38°C, 100% RH)	0.25	g · mm/m ² /atm/24 hr	ASTM F1249
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	3.2	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	74	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	104	°C	ISO 75-2/B
1.8 MPa, not annealed	75.0	°C	ISO 75-2/A

Peak Crystallization Temperature (DSC)	214	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Haze (25.4 μm)	< 1.0	%	ASTM D1003

Additional Information

Bulk Density, ISO 60: 72 lb/ft³Zero Strength, ASTM D1430: 80 to 90 secCrystalline Melting Point, DSC, Tm (initial): 417°FCrystalline Melting Point, DSC, Tm (remelt): 421°F

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